

<110> Fischer et al.

<120> 123 Human Secreted Proteins

<130> PZ010P2

<150> 60/239,899

<151> 2000-10-13

<150> 09/227,357

<151> 1999-01-08

<150> PCT/US98/13684

<151> 1998-07-07

<150> 60/051,926

<151> 1997-07-08

<150> 60/052,793

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<150> 60/058,664

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<150> 60/058,660

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<151> 1997-09-12

<160> 947

<170> PatentIn Ver. 2.0

<210> 1

<211> 733

<212> DNA

<213> Homo sapiens

<400> 1

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tctcccgac tcttgaggtc acatgcgtgg tggtagacgt aagccacgaa gaccctgagg 180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg 360
agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catcccgga tgagctgacc aagaaccagg tcagcctgac ctgcctgggtc aaaggcttct 480
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagAAC aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
acaaccacta cagcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
gactctagag gat 733

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<210> 2

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (3)

<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

Trp Ser Xaa Trp Ser

1

5

<210> 3

<211> 86

<212> DNA

<213> Artificial Sequence

<220>

<221> Primer\_Bind

<223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

<400> 3

```

gcgccctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
cccgaatat ctgcatctc aattag 86

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<210> 4

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<221> Primer\_Bind

<223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4

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gcggcaagct ttttgcaaag cctaggc 27

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<210> 5

<211> 271

<212> DNA

<213> Artificial Sequence



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gccccctaact	ccgcccagtt	ccgcccatte	tccgccccat	ggctgactaa	tttttttttat		180
ttatgcagag	gccgagggcg	cctcggcctc	tgaagtattc	cagaagtagt	gaggagggtt		240
tttttggaqgc	ctaggtctttt	qcaaaaagct	t				271

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<220>
<221> Primer_Bind
<223> Synthetic primer complementary to human genomic EGR-1 promoter
sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a
Xho I restriction site.
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<210> 7
<211> 31
<212> DNA
<213> Artificial Sequence
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<220>
<221> Primer_Bind
<223> Synthetic primer complementary to human genomic EGR-1 promoter
sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a
Hind III restriction site.
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<210> 8
<211> 12
<212> DNA
<213> Homo sapiens
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<400> 8
qqggactttc cc                                     12
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<210> 9
<211> 73
<212> DNA
<213> Artificial Sequence
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<220>
<221> Primer_Bind
<223> Synthetic primer with 4 tandem copies of the NF-KB binding site
      (GGGGACTTCCCC), 18 nucleotides complementary to the 5' end of the
      SV40 early promoter sequence, and a XhoI restriction site.
```

<400> 9



gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60  
ccatctcaat tag 73

<210> 10  
<211> 256  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> Protein\_Bind  
<223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

<400> 10  
ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60  
caattagtca gcaaccatag tcccggccct aactccgccc atcccgcccc taactccgcc 120  
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180  
ggcgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240  
cttttgcaaa aagctt 256

<210> 11  
<211> 1142  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (341)..(341)  
<223> n equals a,t,g, or c

<220>  
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<222> (369)..(369)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (386)..(386)  
<223> n equals a,t,g, or c

<220>  
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<222> (408)..(408)  
<223> n equals a,t,g, or c

<220>  
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<222> (412)..(412)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (526)..(526)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (598)..(598)  
<223> n equals a,t,g, or c

<220>



<221> misc\_feature  
 <222> (676)..(676)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (739)..(739)  
 <223> n equals a,t,g, or c

<400> 11  
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 cgctgaagga tggcgacgcc gctgcctccg ccctccccgc ggcacctgcg gctgctgcgg 180  
 ctgctgctct ccggcctcgt cctcggcgcc gccctgcgtg gagccgcgcg cggccacccg 240  
 gaatgttgcc gcctgtcccg ggagcctgga ctgtgccctg aagaagcggg caagtgtcct 300  
 cctggtgcac atgcctgtgg gcctgccttc agcccttcca naaggaacag caaaggcttg 360  
 ttttgccang atgcgcccgg agcttgcccg gaaaggaatt tggacatcaa ttccgcccta 420  
 attgattcct ggcccaaggg tcccggagct tgccaccttg ggattntcgg caggggggca 540  
 acccaaggac ggacagcggg tcccggagct tgccaccttg ggattntcgg caggggggca 600  
 ggggctggag ctgggcttcc cttccactcc aggaaccccc acgcccacgc cccacacnta 660  
 ccatgggtta cccctgtgtc atccgacccg gtgcacatgt cggccctgga gcccggggga 720  
 gggcaaggcg acggcntcgc ccttgtgtgt atcctggcgt tctgtgtggc cgggtgcagcc 780  
 gccctctccg tagcctccnt ctgctggtgc aggctgcagc gtgagatccg cctgactcag 840  
 aaggccgagt acgccaactgc gaaggccctg gctacacctg cagctacccc ggatctcgct 900  
 tggggaccag cgcttgccac agagcgcgga gatgtaccac taccagcacc aacggcaaca 960  
 gatgtgttcc ctggagcggc ataaagagcc acccaaggag ctggacacgg ctcttcggat 1020  
 gaggagaatg aggacggaga cttcacgggtg tacgagtgcc cgggcatggc cccgaccggg 1080  
 gaaatggagg tgcgcaacca tctgttcgac cagcccgcac tgtccgcgcc cctgccggcc 1140  
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 ac

<210> 12  
 <211> 1034  
 <212> DNA  
 <213> Homo sapiens

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 gttgctggta tcaactgcagt gcttgttgca gctgtagaat ctctgagctg cgtgcagtgt 180  
 aattcatggg aaaaatcctg tgtcaacagc attgcctctg aatgtccctc acatgccaac 240  
 accagctgta tcagctcctc agccagctcc tctctagaga caccagtcag attataccag 300  
 aatatgttct gctcagcggg gaactgcagt gaggagacac acattacagc cttcactgtc 360  
 cagtggtctg ctgaagaaca ctttcatttt gtaagccagt gctgccaagg aaaggaatgc 420  
 agcaacacca gcgatgccct ggaccctccc ctgaagaacg tgtccagcaa cgcagagtgc 480  
 cctgcttggt atgaatctaa tggaaacttc tgtcrtggga agccctggaa atgctatgaa 540  
 gaagaacagt gtgtcyttct agttgcagaa cttaagaatg acattgagtc taagagtctc 600  
 gtgctgaaag gctgttccaa cgtcagtaac gccacctgtc agttcctgtc tggtgaaaac 660  
 aagactcttg gaggagtcac ctttcgaaag tttgagtgtg caaatgtaaa cagcttaacc 720  
 cccacgtctg caccaaccac ttcccacaac gtgggctcca aagcttccct ctacctcttg 780  
 gcccttgcca gcctccttct tcggggactg ctgccctgag gtcctggggc tgcactttgc 840  
 ccagcaccac atttctgctt ctctgaggtc cagagcatcc cctgcggtgc tgacacctc 900  
 tttccctgct ctgcccgtt taactgccc gtaagtggga gtcacaggtc tccaggcaat 960  
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 aaaaaaaaaa tcga 1034

<210> 13  
 <211> 1274  
 <212> DNA  
 <213> Homo sapiens



<220>  
 <221> misc\_feature  
 <222> (1243)..(1243)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1270)..(1270)  
 <223> n equals a,t,g, or c

<400> 13  
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 aagccccctg gaagatgggtg tcctggatga tctccagagc cgtgggtgctg gtgtttggaa 120  
 tgctttatcc tgcataattat tcatacaaag ctgtgaaaac aaaaaacgtg aagggaatatg 180  
 ttcatgagat gatgtactgg attgtttttg ctctctatac tgtgattgaa acagtagccg 240  
 atcaaacagt tgcttggttt cccctgtact atgagctgaa gattgctttt gtcatatggc 300  
 tgctttctcc ctataccaaa ggagcaagtt taatatatag aaaattcctt catccacttc 360  
 tttcttcaaa ggaaaggag attgatgatt atattgtaca agcaaaggaa cgaggctatg 420  
 aaaccatggt aaacttttga cggcaagggt taaaccttgc agckactgct gctgttactg 480  
 cagcagtaaa gagccaagga gcaataactg aacgtttaag aagcttcagt atgcatgatt 540  
 taacaactat ccaaggtgat gagcctgtgg gacaaagacc ataccaacct ctaccagaag 600  
 cmaaaaagaa aagtarccag cccccagtga atcagcmggt tatggaattc cactgraaga 660  
 cggrgatwg raaacagatk aagaagcaga ggggccatat tcagataatg agatgttaac 720  
 acacaaaggg ctctgaagat cgcaaagcat gaaatctgtg aaaaccacca aaggccgcaa 780  
 agagggtcgg tacgggtcac taaaatacaa agtgaagaaa cgaccacaag tgtattttta 840  
 gtcacttaca cgtcaaatat cccaagacag attatgctaa atacatcgac ttcacttctt 900  
 aacatgatat attcaggatt tacacattaa aatgattatt taaattgtgg cagtgatggg 960  
 gtttactttc atgaatttaa attgttttta tttcctgtaa caattgcttc caaatattga 1020  
 ctactaaagg cagttctgca agatgtacta aatatgtata ttagaaatta tagaaaatca 1080  
 tggtgtccgt tttcaaattc atcaacagcc tagagtgcct gagatataag atgaaacaca 1140  
 aatccacagt atacttgaaa ggagcctttt tacgggttcag gataaatcag cctttgtgat 1200  
 gtactgtgtt tacctccttt tgtgttgtat ctggtaatta aantagggcc cagattcagc 1260  
 aagtgcacatn acaa 1274

<210> 14  
 <211> 968  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (904)..(904)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (907)..(907)  
 <223> n equals a,t,g, or c

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 acgggaaaat gtgcccgtg tgtggggctc tccctcatta cctctgctt cgtctgcatt 120  
 gtggccaacg cctcctgct ggtacctaatt ggggagacct cctggaccaa caccaaccat 180  
 ctgagcttgc aagtcctggc catgggcggc ggggctaat ggggcctaat ggtactgtgt 240  
 ccagggtatg cagccgttcg ggcagggggc aagggtgctg gtgggtgctg gtgctgtgga 300  
 aaccgctgca ggatgctgcg ctcggtcttc tcctcgcgct tcggggtgct tgggtgccatc 360  
 tactgcctct cgggtgctgg agctgggctc cgaaatggac ccagatgctt aatgaacggc 420  
 gagtggggct accacttcga agacaccgcg ggagcttact tgctcaaccg cactctatgg 480  
 gatcgggtgc aggcgcccc tcgcgtggtc ccttggaatg tgacgctctt ctgctgtctg 540  
 gtggccgctt cctgcctgga gatagtactg tgtgggatcc agctggtgaa cgcgaccatt 600  
 ggtgtcttct gcggcgattg caggaaaaaa caggacacac ctactgagg ctccactgac 660



cgccgggtta	cacctgctcc	ttcctggacg	ctcactccct	tgctcgctag	aataaactgc	720
tttgcgctct	caaaaaaaaa	aaaaaaaaaac	tcgagggggg	gcccgggtacc	caattcgccc	780
tatagtgagt	cgtattacaa	ttcactggcc	gtcggttttac	aacgtcgtga	ctgggaaaac	840
cctggcggtta	cccaacttaa	tcgccttgca	gcacatcccc	ctttcgccag	ctggcgtaat	900
aacnaanaag	cccgccaccga	tcgccttcc	caacagttgc	gcagcctgaa	tggcgaatgg	960
caaattgt						968

&lt;210&gt; 15

&lt;211&gt; 801

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 15

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gctcctgaga	gaagtctctga	acatggctat	ccctgccttt	tcctcttgct	agcagatttc	120
ttcagcagct	gctctacaaa	tatgcaatgg	accctttaag	catttctcct	ttacagttag	180
cacaatgcta	agctttgtca	gcagatgcca	ctggagcagc	attgcagaag	aaagcgagtt	240
tctcttcctg	attttggtgt	gctacttttc	ttcttcttgc	tccagctgca	ttatccatca	300
gtggtactat	gtataagacc	atcccgtgt	gccctgccct	accacctgcc	cagaggcaca	360
ttcctcactg	actatttggc	ctgattctga	gcctgtggcc	accttctcac	agccctgcaa	420
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cacagcctca	gtttgcctgt	gctccaagaa	attgcctcct	atttgcccag	cagctatgga	540
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ccttctccaa	caaggcctga	ccccagcctt	aaggagagaa	ccgtctttcc	gagttgtctt	660
tccttgggta	ctctccctca	atcctcggat	acccttgaaa	gttctcttta	cattgtttata	720
gttattcttc	tatcactgtc	gaataatttt	ttatattaaa	cttctcttgc	tttacattaa	780
aaaaaaaaaa	aaaaaactcg	a				801

&lt;210&gt; 16

&lt;211&gt; 1198

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 16

cccacgcgtc	cgggagaaaag	ctgcactctg	ttgagctcca	gggcgccagt	gagggaggga	60
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accaactcag	cttcctgctg	tttctcatag	cgaccaccag	aggatggagt	acagatgagg	180
ctaatactta	cttcaaggaa	tggacctgtt	cttcgtctcc	atctctgccc	agaagctgca	240
aggaaatcaa	agacgaatgt	cytagtgcct	ttgatggcct	gtattttctc	cgactgaga	300
atggtgttat	ctaccagacc	ttctgtgaca	tgacctctgg	gggtggcgcc	tggaccttgg	360
tggccagcgt	gcatgagaat	gacatgcgtg	ggaagtgcac	gggtggcgat	cgctgggtcca	420
gtcagcaggg	cagcaaagca	gactacccag	aggggggacg	caactggggc	aactacaaca	480
cctttggatc	tgcagaggcg	gccacgagcg	atgactacaa	gaaccctggc	tactacgaca	540
tccaggccaa	ggacctgggc	atctggcacg	tgcccaataa	gtcccccatg	cagcactgga	600
gaaacagctc	cctgmtgagg	taccgcacgg	acactggctt	cctccagaca	ctgggacata	660
atctgttttg	catctaccag	aaatatccag	tgaaatatgg	agaagggraag	tgttggactg	720
acaacggccc	ggtgatccct	gtggtctatg	attttggcga	cgcccagaaa	acagcatctt	780
attactcacc	ctatggccag	cggaattca	ctgcgggatt	tgttcagttc	aggggtattta	840
ataacgagag	agcagccaac	gccttgtgtg	ctggaatgag	ggtcaccgga	tgtaacactg	900
agcaccactg	cattgggtgga	ggaggatact	ttccagaggc	cagtccccag	cagtgtggag	960
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agataactga	ggcagctgtg	cttctattct	atcgttgaga	gttttgtggg	agggaaaccca	1080
gacctctcct	cccaaccatg	agatcccaag	gatggagaac	aacttacca	gtagctagaa	1140
tgttaattggc	agaagagaaa	acaataaaatc	atattgactc	aaaaaaaaaa	aaaaaaaaaa	1198

&lt;210&gt; 17

&lt;211&gt; 613

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;



<221> misc\_feature  
 <222> (25)..(25)  
 <223> n equals a,t,g, or c

<400> 17  
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 gttgcagcac tcccagtaga ccaggagctc cgggaggcag ggccggcccc acgtcctctg 120  
 cgcaccaccc tgagttggat cctctgtgcg ccacccctga gttggatcca gggctagctg 180  
 ctgttgacct cccactccc acgtgcctt cctgctgca gccatgacgc ccctgctcac 240  
 cctgatcctg gtggctcctca tgggcttacc tctggcccag gccttggact gccacgtgtg 300  
 tgctacaac ggagacaact gcttcaaccc catgcgtgc cgggctatgg ttgcctactg 360  
 catgaccacg cgcacctact acacccccac caggatgaag gtcagtaagt cctgcgtgcc 420  
 ccgctgcttc gagactgtgt atgatggcta ctccaagcac gcgtccacca cctcctgctg 480  
 ccagtacgac ctctgcaacg gcaccggcct tgccaccccg gccaccctgg ccctggcccc 540  
 catcctcctg gccaccctct ggggtctcct ctaaagcccc cgaggcagac ccactcaaga 600  
 acaaagctct cga 613

<210> 18  
 <211> 1621  
 <212> DNA  
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<220>  
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 <222> (527)..(527)  
 <223> n equals a,t,g, or c

<220>  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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g						1621

<210> 19  
 <211> 1122  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (380)..(381)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (402)..(402)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (499)..(499)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (505)..(505)  
 <223> n equals a,t,g, or c

<400> 19						
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tactattttg	ccagcaaagg	ctgagcctgt	atgaacccag	ccatgtgctt	tgtctgtgca	240
tgtccccaca	caggaagcac	accagagaaa	gcgatacttc	agggtagatt	gatttcatta	300
ggaacttcac	tatcaccagc	ctcaaattgg	tctggccagc	agtctttttc	tatctgtatg	360
attaaccctt	ctctgccgcn	nagcacctcc	tcccaccacc	tnttctcagt	gttaacagggt	420
gatctagact	cctactctca	gagaaaattg	aagccaacaa	gtagaaagtc	ttttttgcta	480
ccaaagacac	aaacctatnt	tgtnttgcac	ccatcctcac	ccccgctggg	gcttggttcaa	540
cacaggagtc	ctctctccac	ctacccaaag	cctgtccctc	cctgctgtgc	cctggatctt	600
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ctttcttatt	ggattttaag	catgttgcag	cctcttctgt	taataaaaca	acaatcaaca	720
aaaacactct	cccttaactg	catgctttat	tccagctact	accttatatc	attcctttcc	780
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tcattctttca	acacatacta	atctagttct	ttaccccata	attcattaaa	acacttattc	900
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ccttacattt	tagtattttca	ccctattggc	cattcttttc	ttcttgaaat	actctctcct	1020
ttagctttta	tgacactgta	ctcctgggtt	ttctcccatt	tcttgctctg	tcctgcttag	1080
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<210> 20  
 <211> 1368  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (637)..(637)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1140)..(1140)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1170)..(1170)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1286)..(1286)  
 <223> n equals a,t,g, or c

<400> 20						
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cccctggtgg	tcacggccca	gccgggcygc	gggcccgcgc	gacctcccgc	gcgcctgcwa	180
gacctgagcg	tcttccggga	ccgcggcttt	gtgctttacg	ccgtggccgc	ctcggtcatg	240
gtgctggggc	tcttcgtccc	gcccggtgtc	gtgggtgagct	acgccaaagga	cctgggctgt	300
cccgacacca	aggccgcctt	cctgctcacc	atcctgggct	tcattgacat	cttcgcgcgg	360
ccggccgcgg	gcttcgtggc	ggggcttggg	aagggtgcgg	cctactccgt	ctacctcttc	420
agctttctca	tgttcttcaa	cggcctcgcg	gacctggcgg	gctctacggc	gggcgactac	480
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gtgctgctga	tggaggcggt	ggccgtgctc	gtcgggnccc	cttcgggagg	caaactcctg	660
gatgcgaccc	acgtctacat	gtacgtgttc	atcctggcgg	gggcccagggt	gctcacctcc	720
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<210> 21  
 <211> 1188  
 <212> DNA  
 <213> Homo sapiens



```
<220>  
<221> misc_feature  
<222> (1052)..(1052)  
<223> n equals a,t,g, or c
```

```
<210> 22
<211> 921
<212> DNA
<213> Homo sapiens
```

<400>	22						
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aagctgttct	attcgttctc	gcctggtttg	gaacaaactg	aacacttcca	aaggaggcag		180
tccttgccgc	cttgctctct	tccactcccc	tcctccccac	agtcctgggc	tggagcagcg		240
agtctgtcga	tcccagggcc	agagacaagg	cagacaaagg	ttcatttgta	aagaagctcc		300
ttccagcacc	tcctctcttc	tccttttgcc	caaactcacc	cagtgagtg	gagcatttaa		360
gaagcctcct	ctgccaaagac	caaaaaggaaa	gaagaaaaag	ggccaaaagc	caaaatgaaa		420
ctgatggtac	ttgttttcac	cattgggcta	actttgctgc	taggagttca	agccatgcct		480
gcaaactgcc	tctcttgcta	cagaaagata	ctaaaagatc	acaactgtca	caaccttcgg		540
gaaggagtag	ctgacctgac	acagattgat	gtcaatgtcc	aggatcattt	ctgggatggg		600
aagggatgtg	agatgatctg	ttactgcaac	ttcagcgaat	tgtctctgtg	cccaaaagac		660
gtttctcttg	gaccaaaagt	ctctttcgtg	attccttgca	acaatcaatg	agaattctca		720
gtatttctgg	aqaacaccat	tcctgatttc	ccacaaactg	cactacatca	gtataactgc		780



```

atttctagtt tctatatagt gcaatagagc atagattcta taaattctta cttgtctaag 840
acaagtaaat ctgtgttaaa caagtagtaa taaaaggtta ttcaatctaa tttttctctg 900
tggaaaaaaa aaaaaaaaaa t 921

```

```

<210> 23
<211> 1838
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1076)..(1076)
<223> n equals a,t,g, or c

```

```

<400> 23
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gatccacctg cctcggcctc ccaaagtgtc gggattacag gtgtgagcca ccatgcctgg 180
ggcaaaaagt attttcaaaa cattgtmaat aacttctccc ccaaaccag acaggggtctc 240
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ccggggctca agcaatcctc ccgcctcagc ctgccaaagt gctgggatta cacacgtaag 360
ccagtgcact cagtcctaag taacttttta aataccaaaag gtagaaaagg aagaagaggg 420
aaaaaaaaaa taagcccata tatggaaaag gaaaagacag cagataaata taggcaaata 480
gaggtggaaa atataatcac gtagaattta gtatagtaaa ggattatctc tgaaaaacaa 540
aaacagaaaa ctatcagagc caaataaaga aaaatggaaa tgactgggga aaaccactca 600
ctaattgagtt gaattgtcaa gagaaactga gaaagagtac tgcttatata aaaattatgt 660
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attatcacct gttaaataag aatgcatagt aaatggaatg gacaaagaat atgagtgaca 780
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àcaaagtagc aaactcgctg cattagaaga aaaggccatt tcttcacata tttgaatata 1800
ggcaccaaca catagttcca catgaaatta tatttcgg 1838

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```

<210> 24
<211> 697
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (19)..(19)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (50)..(50)
<223> n equals a,t,g, or c

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<220>  
 <221> misc\_feature  
 <222> (57)..(57)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (662)..(662)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (680)..(680)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (690)..(690)  
 <223> n equals a,t,g, or c

<400> 24  
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 tgtccagcag catccggctt catgggggga cttgaaccct gcagcaggct cctgctcctg 180  
 cctctcctgc tggctgtagg tctccgtcct gtccaggccc agggccagag cgattgcagt 240  
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 gtgctcattg ccctggccgt gtacttcctg ggccggctgg tccctcgggg gcgaggggct 360  
 gcgaggcgca cccggaaaca gcgtatcact gagaccgagt cgccttatca ggagctccag 420  
 ggtcagaggt cggatgtcta cagcgacctc aacacacaga ggccgtatta caaatgagcc 480  
 cgaatcatga cagtcagcaa catgatacct ggatccagcc attcctgaag cccaccctgc 540  
 acctcattcc aactcctacc gcgatacaga cccacagagt gccatccctg agagaccaga 600  
 ccgctcccca atactctcct aaaataaaca tgaagcacia aaaaaaaaaa aaaaaaaact 660  
 cngggggggg gcccggttan ccaatttggn cctaaag 697

<210> 25  
 <211> 628  
 <212> DNA  
 <213> Homo sapiens

<400> 25  
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 tatttttaggg atagataatg aaagaggctg tcatttcaga cattttaatc ctctgaaaga 120  
 atacaaaaga aaaaaaaaaa aaaacaaatc ttccagaatt gtttgaagta agaacaagac 180  
 aagaggaggt gattgggtgtg ttactgttct acgaaaaagg agaaaaagct tcatgaaatc 240  
 gccattcagc aaggacagaa ctggagatgg cttctctttt acaaagaaat ctctgtccca 300  
 ggcttttcagt ctgttttggtg ttcatacaag tgtttggtgt ttgtgtggaa ggcgggggaa 360  
 ggcggttgaa ggcggtcctg ttcagggccc ctttggtga acacagcagg caaaatactc 420  
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 gcctttgaat agaagctgac acgtagcagc cagctgaaca agtattttaat gaggagcaac 540  
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 aaaaaaaaaa aaaaaaaaaa gggcggcc 628

<210> 26  
 <211> 1422  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1397)..(1397)



<223> n equals a,t,g, or c

<400> 26

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tttgaggatg tgytctttt tcttggttg atgtttggt sgtccttgaa tgggcaagag 180
ggcacatgaa gtacggcgct ctcacattc acggcctcta cacgggacc ctgcggggtg 240
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tcagatattc caggccctct tctttactc cgtgccgaat aaggtggatt tggagcacta 420
catgcttggt ctgaaggaga atgaagacca tttctttaag catcaggcag atatgcttct 480
gcacggaatc aaagtgtgat cctacgggga ctgttttgac cactttccag gatagtgtga 540
agaccttgcc actcagatct gcaaacagca aagcccagga catttgact cgaattcatg 600
gagtgccact cctgatggga gaggaggccc atgacagtga cagtcatgct agtgatcgcg 660
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agaactccac gtggatctct gattgggaaa ccgtcacata caccaagaga gccacatggg 1140
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gaatccgtgg gaagggatgg acctggtgtt cccgttccca tctgacaggc tctcttttgt 1320
ccaagtggtt atttttcgta ataaaagggg aagagtaaar amwrwmmaar maamagtagc 1380
tgccaaagag aaaatangaa atagacactt ttttttttgg gg 1422

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<210> 27

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (3)..(3)

<223> n equals a,t,g, or c

<400> 27

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gggttggcct gaactctgcc aaacaaatat caaagtgtat ttaatagtta aatttgtgcc 120
ctttcccttc ttgctgcacc catgttgtca cttaaccccc aggagttatt tattatcttt 180
ttgttaaagt caggctcatt tggggtaatg tgatgactgt ttaggtttac atgacctcc 240
tctcctttcc ctaccccaa atatgtatat atacatatat aaaatatgta tatattttac 300
ctatataaaa tatatatata tacacatata tgtatctata ttcctttgtt tctttgcctg 360
cttatactgg ccataaaaga gggagctgcc ttcaatgtat aaagtataag aagagtgcc 420
gggaatgcca taatggaggc ttttggatct gaatttggac catttcacta aagagaacat 480
gagtttgctc agccctttcc tcacaagagg gagggcccc gttccccaga cttctccacg 540
cgctggctcc ataaaggcca gctttggccr ggctgccaca ggggcctgag gagctcactc 600
tgggcctacc tggtttcagt tagagggtcc tcctgttatt tttccattta aaaagtatgt 660
cctcagaaaa ctgtactgga aggatgggtg gcaggaactt gtatagtcca gcttccaaca 720
ctttggaaca gattaaaaag ggaatctttt aaataaaaac gtataaaaat aaaaaaaa 780
aaaaaaaggg cggcc

```

<210> 28

<211> 577

<212> DNA

<213> Homo sapiens

<400> 28

```

tagtggatcc cccgggctgc aggaattcgg cacgaggctg cacgagggtt ttgagaggat 60

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caagtaagat	aatgaatgaa	agtgtctatg	acgacagtag	tagttcttac	acaccatccc	120
tccacatttt	gggatgtctg	ttgctgtctt	tccttggggg	ggaaagagca	ctggagccct	180
tctctgggtt	ttgtgcttct	ttacatgatg	tgagacctat	agtaaaccct	ttaacctcct	240
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cggccagggt	cagtggctca	tgcctgtaat	cccagcactt	tgggaggccg	aggcagggtg	360
atcacctgag	gtcaggaggt	cgagaccagt	ctggctaaca	tggtgaaacc	ctgtcactac	420
taaaaatacm	aaaaaatcag	ctactcggga	ggctgaggca	ggagaatcct	atgaaaacgg	480
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aaactttgtc	tcaaaaaaaaa	aaaaaaaaaaa	actcgta			577

<210> 29  
 <211> 756  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (230)..(230)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (755)..(755)  
 <223> n equals a,t,g, or c

<400> 29						
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gaaaaagtga	gcagatactc	tgatatgagc	aatataactt	aggtgtaaaa	aaaaaaggaa	720
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<210> 30  
 <211> 1296  
 <212> DNA  
 <213> Homo sapiens

<400> 30						
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aaaaaaaaaa	aaaatttggg	ggggggggcc	ccgtta			1296

&lt;210&gt; 31

&lt;211&gt; 1560

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (461)..(461)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (497)..(497)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (499)..(499)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (595)..(595)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (621)..(622)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 31

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<210> 32
<211> 1462
<212> DNA
<213> Homo sapiens
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<400>	32						
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aaaaaaaaaa	aaaagggcgg	cc					1462

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<220>  
<221> misc_feature  
<222> (1264)..(1264)  
<223> n equals a,t,g, or c
```

<400> 33						
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tctagtttct	gtctctcagg	cactcgtaac	taaggaccac	cattggccat	tggtagatgt	480



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```

```

<210> 34
<211> 773
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (459)..(459)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (503)..(503)
<223> n equals a,t,g, or c

```

```

<400> 34
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cccttgccct ctcaagtttg ctcaagggtca agttatgcct tttgcctgga atgacttgac 180
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aactgaatac tgccaacgta gtnccagttt ctgtatctaa agactcagct tggagtcact 540
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cccagctttc tgccctctag aaatttgtca gaatttccaa aattcctggg ccttccttct 660
tgctctatat atgggttttg attcattcct tttaaaaaat atttactgtc atttcagtag 720
aattttgaca caataaatat aagcacatca aaaaaaaaaa aaaaaaactc gga 773

```

```

<210> 35
<211> 2455
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (2277)..(2277)
<223> n equals a,t,g, or c

```

```

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accaacgccc cgcagsggcc ctggcggaat tcaaccctt ctcagagaca aatgcagcga 240
caacagttcc tgtcacccaa ctccctgggt cctcacagcc agcggttctc cagccatcag 300

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<210> 36

<211> 914

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (909)..(909)

<223> n equals a,t,g, or c

<400> 36

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<210> 37  
 <211> 1555  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1248)..(1248)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1389)..(1389)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1391)..(1391)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1393)..(1393)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1396)..(1396)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1551)..(1551)  
 <223> n equals a,t,g, or c

<400> 37	
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gaggaaacatt tttaatgcat ggaagagctg gagtgaaccg aatttcanac tgccctgctg	1260



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&lt;210&gt; 38

&lt;211&gt; 1767

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (765)..(765)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1130)..(1130)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1545)..(1545)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1658)..(1658)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1744)..(1744)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1748)..(1748)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 38

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tgtcgtcagt	tgatgtctct	tgacctgaac	tgagtatgcc	tgtggaagg	cctcttagcc	540
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aagactgaga	gatgatgata	ctttactttt	cctgtaaaga	agataatttt	taaatctttc	1020
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ctgnaaanaa aaaaaaaaaa aaaaaaa 1767

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<210> 39

<211> 1579

<212> DNA

<213> Homo sapiens

<400> 39

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cgggttggtt agcggctgcg gccaccgagg tagccggggc tgtggcaggg gcgggcgcgg 180
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aacaattggc caaaatacat aataatgtaa agaaacttca gcatcaatta aaagatgtga 540
agcctacacc tgattttggt gagaagctca gagaaatgat ggaagaaatt gaaaatgcaa 600
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gctttacaaa cccaccaa 1579

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<210> 40

<211> 1543

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (69)..(69)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (717)..(717)

<223> n equals a,t,g, or c



<220>  
 <221> misc\_feature  
 <222> (899)..(899)  
 <223> n equals a,t,g, or c

<400> 40  
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 agaactagt gatcccccg gctgcaggaa ttcggcacga gccgaacagt aggacatgtc 180  
 atggcatttt tgctcaccct tgttccactc ctccccagcc gttgtcttgg tttggaggag 240  
 atggcagttc ctaattccac ctgtattagt ccattctcat gctgctatgg ataaatatct 300  
 aagactgggt aattttataaa ggaaagaggt ttagttgact cacagttctg catagctgag 360  
 gagacctcag gaaccttata atcatggcaa aaggcaaagg agaagcagac aggacagagt 420  
 gaatgccagc aggagaaatg ccagacgctt ataaaacat caaatcttgt gagaactctt 480  
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 cccacccttg acatgtggga attattacaa ttcaagggtga gatttgggtg gggacacaca 600  
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 tgagaagacc tttagctttc tctttgatgt gatctcaaaa ttcagaagca aggccaaagat 1020  
 aattaggaaa ggacttccat ggcaaagagc cagtctacag agaatgggag aagtagctgt 1080  
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<210> 41  
 <211> 2095  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> n equals a,t,g, or c

<400> 41  
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 gacacttctc aggagagccc tgtcaagtca tctcccgtcc gcatgtcaga gtccccgacg 660  
 ccgtgttcag ggtcaagttt tgaagagact gaagcccttg tgaacactgc tgcgaaaaac 720  
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<210> 42
<211> 1092
<212> DNA
<213> Homo sapiens
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```
<210> 43
<211> 413
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> (385)..(385)
<223> n equals a,t,g, or c
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<220>



<221> misc\_feature  
 <222> (410)..(410)  
 <223> n equals a,t,g, or c

<400> 43  
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 ggggtttccaa tcaggccgag tgggttgagg acgatgtcat acagcgcaag agggagctgt 180  
 ggccacctga gaagcttcaa gagatagagg aattcaaaga gaggttacgg aagcggcggg 240  
 aggagaagct ccttcgagac gccagcaga actcctgagg cctccaagtg ggagtcctag 300  
 cccctccct gatgaaatat acatatactc agttcctgt taaaaaaaaa aaaaaaaaaa 360  
 aaaaaaaaaa aaaaaaaaaa aaanaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 413

<210> 44  
 <211> 735  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (376)..(376)  
 <223> n equals a,t,g, or c

<400> 44  
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 ataaaaggaa tccctaattgc agaaacaaag atgcaacttt caaaattctt attattccta 180  
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 tagttctaaa ctttatccca aacagaaaat gtggktaatg atgtcacttt cttgtctggk 300  
 catcattagg cttaaattaa atgctgaagc tgtcatcaaa gagtttacac taaaatcttc 360  
 agggctttta ataaanggtt aagtccagct tccaaacaca atttccaca ttagcagctc 420  
 caatcttctt aaataaagct ctgttttct atatttttat gactgctgag accccacagg 480  
 gaccaatatt tgtattcaaa ttacatttca tggtttccca ttgtttcaca atgagttcta 540  
 ataatggga ttactataaa taatccaagt atgacatagc cggtagtctt tcatgaatgt 600  
 ttttatgtag attttctctc catgaacatg agtaataaaa tctgtttcct gaattggattg 660  
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 aaaaaaaaaa ctcca 735

<210> 45  
 <211> 775  
 <212> DNA  
 <213> Homo sapiens

<400> 45  
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 atgctatcaa aagtaattaa tttcaagtgt aaataagacc aaacaaaaac gatcagatgc 180  
 gacattgtct cataaacatg atagactatt aaatcacttt gtgttttttg gaaacagcta 240  
 taactattaa tatatacagt aatctagtaa atttccttca gatatgctat tgcggataca 300  
 acagatcatc tattgtcaca agctaaccat tatcctaaca aaatggcggg atacagcaag 360  
 acataagagt aaaaagaaa aagatgagct gatattaaaa catgaacttc aattgaaaaa 420  
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 aagtgtggtg gtgcatgcct gtaatcccag ctgcttggga ggctgagaca ggagaattgc 660  
 ttgaacccag gaggcagagg ttgcagtgc cgcagatcac accattgcac tccagcctgg 720  
 gcgacaatag caaaactcca tctcaaaaaa aaaaaaaaaa aaaaaaaggg cggcc 775

<210> 46  
 <211> 506  
 <212> DNA



$\langle 220 \rangle$  $\langle 222 \rangle \quad (13) \dots (13)$ 

<400> 46

<210> 47

<212> DNA

 $\langle 220 \rangle$ 
$$\langle 222 \rangle \quad (1420) \dots (1420)$$

<220>

 $\langle 222 \rangle \quad (1432) \dots (1432)$ 

<220>

$$\langle 222 \rangle \quad (143\bar{6}) \dots (1436)$$

<400> 47

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cacttcggaa	cctgttgctg	tttgaccac	ggaggtggag	gagtaacttt	ttgacatgtt	180
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gcaaaaactga	agaaaaaaaag	cacagaattg	tttcaacaga	tgtctctcat	tttcagctag	1020
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atttttttaga	tcacctgcaa	ttcattttgca	aattgcaata	aaacacactt	tagaaaaaag	1140
gaaccttcaa	ttattagctt	tgtttctttt	taaattgtata	taaaaagact	aatgtttgtg	1200
aatgaagtgt	gctaacatgt	atttagtttc	attttggtct	tatgtaatat	aaagttttta	1260
aaatttttaa	tatggtttta	acctttatgt	gtaaatgatt	ttctagtgtg	accttctaata	1320



```

ttaatattag acgtctaagg tatatctgta aattagaatc cgactatcac tctgttcatt 1380
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aaaaaaa 1447

```

```

<210> 48
<211> 1420
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (524)..(524)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (585)..(585)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (596)..(596)
<223> n equals a,t,g, or c

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```

<220>
<221> misc_feature
<222> (1042)..(1042)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1062)..(1062)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1144)..(1144)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1171)..(1171)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1286)..(1286)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1350)..(1350)
<223> n equals a,t,g, or c

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<400> 48
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cttgaggagt caccggggag actgctcgca ctgtttgtgg tgcgacgggc actggcccag 120
ggacagaggg aagagaaggg ccagccagcg gcagtggagt cggcaggctg gctgcccact 180
cgctttctct cctcacaaga ctgccttccc ctgtcttcga ggatctcgaa cggactatag 240
tctggactcg ctgggctgga ggaaacttgg ccgctggcca cccggaggag actgaaaatc 300
ctttggtcaa cagggcgctt ttccttgaac caaaacaaaa ctttccgaag ccggaaaagga 360

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<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (16)..(17)  
 <223> n equals a,t,g, or c

<400> 50  
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 ctgtgacagc ccttcgccac aagaagatgg gcagatcatg tttgatgtgg aaatgcacac 120  
 cagcagggac catagctctc agtcagaaga agaagttgta gaaggagaga aggaagtcga 180  
 ggctttgaag aaaagtgcgg actgggtatc agactgggcc agtagacccg aaaacattcc 240  
 acccaaggag ttccacttca gacaccctaa acgttctgtg tctttaagca tgaggaaaag 300  
 tggagccatg aagaaagggg gtattttctc cgcagaattt ctgaagggtg tcattccatc 360  
 tctcttcctt tctcatgttt tggctttggg gctaggcatc tatattggaa agcgactgag 420  
 cacaccctct gccagcacct actgagggaa agggaaagcc cctggaaatg cgtgtgacct 480  
 gtgaagtggg gtattgtcac agtagcttat ttgaacttga gaccattgta agcatgacct 540  
 aacctaccac cctgttttta catatccaat tccagtaact ctcaaattca atattttatt 600  
 caaactctgt tgaggcattt tactaacctt ataccctttt tggcctgaag acatttttaga 660  
 atttcctaac agagtttact gttgttttaga aatttgcaag ggcttctttt ccgcaaatgc 720  
 caccagcaga ttataatttt gtcagcaatg ctattatctc taattagtgc caccagacta 780  
 gacctgtatc attcatggta taaattttac tcttgcaaca taactaccat ctctctctta 840  
 aaacgagatc aggttagcaa atgatgtaaa agaagcttta ttgtctagtt gttttttttc 900  
 cccaagaca aaggcaagtt tccctaagtt tgagttgata gttattaaaa agaaaacaaa 960  
 acaaaaaaaaa aaggcaaggc acaacaaaaa aatatcctgg gcaataaaaa aaatatttta 1020  
 aaccaaaaaa aaaaaaaaaa aaggggggt 1048

<210> 51  
 <211> 968  
 <212> DNA  
 <213> Homo sapiens

<400> 51  
 ggcacagcaa ccgtcactgc ctatcagaat cagcagatta ctcgcctgaa gatagatagg 60  
 aatccatttg cttaaaggctt ccgagactcc gggcgcaaca gaatggggtt ggaagccttg 120  
 gtggaatcat atgcattctg gcgaccatca ctacggactc tgacctttga agatatccct 180  
 ggaattccca agcaaggcaa tgcaagttcc tccaccttgc tccaagtact gggaatggcg 240  
 ttcttgccac tcaccctcac cttttgtctg gctcctcttg ctctctctct gccttccatc 300  
 tggggcccaa caccagccag ctgtgtagtc tggccctgc tgactattct gcctgtgccc 360  
 gctcaggcct caccctcaac cgatacagca catctttggc agagacctac aacaggctca 420  
 ccaaccaggc tggtagagcc tttgccccgc ccaggactcc ctccatagtg ggcgtgagca 480  
 gcagcacctc cgtgaacatg tccatgggtg gcaactgatg ggacaccttc agctgcccac 540  
 agaccagctt atccatgcag atttcgggaa tgtccccca gctccagtat atcatgccat 600  
 caccctccag caatgccttc gccactaacc agacccatca gggttcctat aatactttta 660  
 gattacacag cccctgtgca ctatatggat ataacttctc cacatcyccc aaactggctg 720  
 ccagtcctga gaaaattgtt tcttcccaag gaagtttctt ggggtcctca ccgagtggga 780  
 ccatgacgga tcggcagatg ttgccccctg tggaaggagt gcacctgctt agcatggggg 840  
 tcagcagagt ttctttgact ctaggacctt aggaagctta actctgtcat catctcaagt 900  
 atctgcacat atggtctgat gaagccttta aagttaaatg aacatttggg atctgtctaa 960  
 acatattt 968

<210> 52  
 <211> 586  
 <212> DNA  
 <213> Homo sapiens

<400> 52



```
<210> 53
<211> 751
<212> DNA
<213> Homo sapiens
```

```
<210> 54
<211> 477
<212> DNA
<213> Homo sapiens
```

```
<210> 55
<211> 1153
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (511)..(511)
<223> n equals a,t,g, or c
```



```
<220>
<221> misc_feature
<222> (84)..(84)
<223> n equals a,t,g, or c
```



```
<220>
<221> misc_feature
<222> (128)..(128)
<223> n equals a,t,g, or c
```

```
<210> 57
<211> 908
<212> DNA
<213> Homo sapiens
```

<400>	57						
gaattcggca	cgagatttta	ttaaaaaataa	gtgcttttct	ctgcttacct	tttactatga		60
tctaactatg	atactttcaa	tatgctgcag	actctcattc	ttatctttct	tttgttgtta		120
ccttgttacc	tagaactcct	atgtttcagc	ctaattttct	catctgcaa	gacctaatag		180
gaagaaat	ttactttggt	ttagtgtgta	taaaatctgg	gaacagctaa	atttcagttt		240
taatataaaa	ttttgacttt	tatatattac	ccaatttgt	taaaaggaga	attctatgta		300
tacctatctc	ttaaaaatat	tgctctatat	atataccgct	taaaacaaca	acagcaacaa		360
caaaaactta	gaaggtaaac	aaaaagtaat	ctcataaaac	atagaagggg	aatacacctt		420
ggtttcagat	atgcacagaa	agtatgtaag	ctgtacccca	gaagcatcct	tataaatttt		480
gcagtcagtt	tctctgacct	ttctttacac	aggagggatt	tgttgta yca	atctttaatc		540
taagtgtgat	acaccaactt	cctattgaat	tgcccttagag	cagaagaaaa	ggtataaaga		600
tgatgcatct	tacttagaaa	tgaaaatata	acaaaacaag	tcatgttaaa	caaggaaaaga		660
tatggatcct	taatcacgaa	cccaaaccba	gttggtggct	gaacagagaa	gaactgtggg		720
agccaggcca	gttgggcatga	cagtatgtgt	tcagctgggtg	tgagtagaagc	ccctggactg		780
aggggtgtta	gtgtggcttc	agccagggga	ttcagtggtg	aagaaccctc	ttgctactgt		840
actctttgtc	tttattacaa	tactagtcaa	gaaaaaattc	tttctaaaaa	gaaaaaaaaa		900
aaactcga							908



```
<400> 60
gaattcggca cgaggggaaa taatgtttgt ggaaaattgc ttagaggaaa tggagtatat 60
tactggtata ggtactctaa aatgtctttt gaattaagtc agagttagag ggttgtgtct 120
ctaaaccgca tcttactggg attatgctat cagcctgtat tgagagactt tataggtaaa 180
```



gtccaattta	ggctgttttg	tattatctat	taaaattaga	atgttcatgc	tctgtaacct	240
gctacttcca	cttctagaat	ttatcttttg	aagcacatat	ctgtccacag	acctatattt	300
acacacatgt	atgaagaatg	tkttccttca	cattcattca	ttttaacaaa	tgttttgatg	360
tgtagggcct	aagctgattt	gaatgcagct	gaaatgcaca	tatctggttg	agtcmtggga	420
actgatttgc	atgtgtcttt	ctcttttatg	gcttgaagag	gagagaaatt	tgtgcttagc	480
acattgaagg	gcntacgaga	tacaaggagt	ctgtccttag	ctctgccctt	tggactggtg	540
tctgaaggct	aaagaagaga	gnacaaagaa	agcttgcatt	gggaggctga	ggtgggagga	600
tcacttgagc	ttaggagttt	gagaccagcc	tgggcaacat	aggagactg	cacctctata	660
agaaatttta	aaaattagcc	gggttggcag	cgtgctcttg	tggccccagc	cgcttgaaaa	720
gctgaggtgg	gagaatcgcg	tgagcctggg	aggctcaggc	tgcatgtcac	cgtgattatg	780
ccactgcact	ccagcttggc	aacattgact	gtctcaaaaa	gattatatat	ctctaaaaaa	840
aaaaaaaaaa	aactcga					857

&lt;210&gt; 61

&lt;211&gt; 767

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 61

catgaaaaca	cattctctta	tagtttttaa	attcatcatc	caagagttcc	tgctctttga	60
tgatgagaca	tacctggtag	actccaaaac	agagagcaga	cgcctagtat	ctttgttctg	120
gggtgtgcat	taagagtaca	ttgacctgtc	tgtctccagt	cttgactctt	ttggaagaga	180
gatgctagta	ctgatgacaa	cctgcattct	ggctgcggtg	tgygtccaca	ctgcacagtg	240
tgaccagac	tctcgtatgg	acaatgactg	tccttcacat	caggcgagca	tccattttag	300
agcctcagaa	gtcaggagag	gggtggacttt	caaccacgac	tgaaaacact	gtctttctta	360
ggacatgctg	tgtgtatgac	acacttacag	atgtctgtgc	tcactgatgc	ttgttgatgt	420
gtcatcgcac	atcagtgcac	aacatttgtc	atgtttttgc	ctttgggtgga	acttctttat	480
tatactcact	ttcctcccaa	accatttttc	tcaacttcac	catgaagcaa	atgtcatgtg	540
gtcattctgt	gatggggctc	agggctaggt	taggtgatga	tttctgaaag	ctcagagacg	600
tgaaggaaaa	aggacatcag	tgcttggatc	ttagctctta	taagcctcac	gtgcaacaat	660
aaacccgagt	tcaagaatca	gattcttaga	tagattgggt	tggtagcaaa	tgacaaaaaa	720
ccaacgtaaa	tatgcttcgg	caaaaaaaaa	aaaaaaaaag	ggcgggcc		767

&lt;210&gt; 62

&lt;211&gt; 728

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 62

aaatgattta	gtgacctata	caagtagcct	gcagtaccgg	atccgaattc	ccggctcgacc	60
cacgcgtccg	gtgaaaacag	cagagtgcct	ctccatacca	ctgggatctt	gtccagtaaa	120
catccagaga	gtgagggttag	gaaataaaaa	gtatataaat	attagatgcc	tagaaatgca	180
agtcacttta	aagattttat	gtgaaataga	aaaaaaagag	aggagagggg	ctcattgtct	240
tgtaatgggt	ccttcccaga	gagaggtgac	tgtccagtgg	caccggggccc	ttttcctcct	300
tcccctttta	ctcttatcaa	ctaggacaga	aactaagaat	tttggcttca	agtggtctaaa	360
agactgatgg	gggaaaaaag	aaaatagaaa	aaaataacag	agagactgac	gctctaggca	420
gttacaagtc	caagaaaaaa	gacagaaact	tttaagtatt	gagccaaaac	caggtctagc	480
aamcataatg	ctggccctag	attattttat	aatttatgaa	gaaacttcta	gatatggggg	540
tgacaaaagg	aaattaaatc	cattatatat	gcatatatat	taatgtaaat	atataataga	600
taaattatgt	atacataata	tataacccaa	ttgaaacagt	tttacaattt	ggtttgactg	660
gaaattcaaa	atccatatat	taatttttgt	agtaaaagtt	tatgtaaaaa	aaaaaaaaaa	720
gggcgggcc						728

&lt;210&gt; 63

&lt;211&gt; 944

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (932)..(932)



```
<220>  
<221> misc_feature  
<222> (942)..(942)  
<223> n equals a,t,g, or c
```

```
<220>
<221> misc_feature
<222> (944)..(944)
<223> n equals a,t,g, or c
```

<400>	63						
tgcacccacg	cgtcgcgcca	cgcgtccgga	cagacccagc	ctggagctgg	cccctggcct		60
gtgtgctgac	ttcttggggt	cctcaaacca	ctgtatTTTT	ctgttgagcc	tgtactttggg		120
gagagatcag	tagcatttga	ggaagtaaga	gaaaagaatc	atggtacctc	agggtttctt		180
tccctttact	cgctggcagc	cattgtctgt	gggcacctca	tgtttttcca	cactctactg		240
ggcctgtggg	gtaacgatca	cccaggccag	tctcctctgc	ctgggatgcg	ccctctgaga		300
ggaggcctag	cagggcagcg	tccctctggg	catccctgga	tgcagcctct	ggacacatgc		360
ctccttttaa	gctgcgggt	gcagctcagg	ttgagtggag	gtagaaggag	aaacagacat		420
gtttaccacg	cgttttccaa	agctcctgat	ctttcccaaag	attgtaactg	aaaactgctg		480
tctcttgttt	tgttcgtttt	gggggtggtg	gtgctggctg	ggccatgctt	gtgaagtgat		540
gtgtgtctct	gatttaacgg	attcactgtt	ttctctgcta	attgagagag	cgttattttac		600
attattttatt	tgttttgaca	caagtgcctt	cagtgtttta	tcctagctaa	tggcttctta		660
aaggtaataa	aacccttcca	acgtaattgg	tcagataaaa	ctttttttct	tgtatgctta		720
aataaaagcaa	ttagtgaagc	acttctatcc	aaaatgacct	ttttgtcctt	ttttaaaacc		780
aattttactgt	tactggaaac	tttttgtaca	ataawgcaat	cacgcagatt	aaagaaaaaa		840
aaaaaaaaaaaa	aaaaaaaaaa	aagggcggcc	gctctagagg	atccaagctt	acgtacgcgt		900
qcatgcgacg	tcatagctct	tctactacgt	gnaccctaac	tncn			944

```
<210> 64
<211> 782
<212> DNA
<213> Homo sapiens
```

[illegible]

```
<210> 65
<211> 442
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (306)..(306)
<223> n equals a,t,g, or c
```



<400> 65  
gaattcggca cgagtgaccc agaaggggtga gtcagttggt agtgtgggggt gcatgaggggc 60  
cattgcagggt tttgataatt acccttttatt ttaatttgat cataacttttt tgtttataac 120  
cttattctaa aaataattca aggtgaccat gcttccatta tacttcttgc aaccatacct 180  
atctttggtg atatttatta tgttaaggga caattggcat cttttggccc ttacctgtag 240  
ctattctatc atctggagat tatctccaga cacaaatcca tcgcccattg ctccatcgag 300  
gcacantcag ctckttgtag ttgccattgc ccctctcgag ctttctccac atagccacat 360  
gcaatccatt cccaaaaaacc tagctcaatt ttctcatca cagatgtttt cctgaccct 420  
ccagttggta tatatctcct cc 442

<210> 66  
<211> 833  
<212> DNA  
<213> Homo sapiens

<400> 66  
gatcttggtcc aagcagtcgg ggctacttcc aagaatgtca gtcctgtgta gcaaccagtg 60  
gagtcctggcc ttgggctcta agttgacctc tctatagctc caaatcctac caatctcaga 120  
aaactgtaag aggcacagat gactccacca gctgcagagt gactctgaag agagtcttca 180  
cttactgcac agggcaaagaa aggcacagga atatttctta cctctccctc ctgtgagtcc 240  
cacctcccc caccctccatc tccaggaggc aggtagagca gttctraccg agaggataga 300  
ctgctgttgc tgtctttccc cagctctgaa ctagttttta ggtagcttag gatgaaaaat 360  
ggagaatgat tgggggttcc aaaccacttt yttctccctt ggcttatatc tcttcacat 420  
ttggtggtca actgtgggsc taccctggac ctcatctact cagcgagaat tggacatgaa 480  
gctagaggca gctgccttgg aagggaagtm aggtcactt ggacagcca ggccatggca 540  
ggaagaatcc cttcctcttg gggctccttga tgggcatgtg tgatggggaa ggagcagtct 600  
cccagccctg ggtctgtctc ccacatctct cctaattcca cttcaccttt tgccaccccc 660  
tccccaccag aggcctagcc cttttgtcac cgaaggcccc cagagtgttt ctgtgtgaaa 720  
ccctctcatt tacactgtgg catcaaaatc cacaaaagat ggattaattg cactctggtt 780  
aatagcagca gcacaatgat taaaatctat attcctaaaa aaaaaaaaaa aaa 833

<210> 67  
<211> 1262  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (621)..(621)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (641)..(641)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (722)..(723)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (726)..(726)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (730)..(730)  
<223> n equals a,t,g, or c



```
<220>  
<221> misc_feature  
<222> (1261)..(1261)  
<223> n equals a,t,g, or c
```

```
<210> 68
<211> 921
<212> DNA
<213> Homo sapiens
```

```
<210> 69
<211> 478
<212> DNA
<213> Homo sapiens
```



<400> 69  
 ttttttagca tttcacgcta tttattcccc aaaaccttct gccatagaag acagccacca 60  
 tacagattgg aaaatgtgga cgaggagaaa aggggtgtat ggtaagcaaa ataaattgta 120  
 ttttccatcc ttggggagga taaaggaaact ctttgcactg ctataatgaa cagcccccaa 180  
 atgccagtgg ttttaattcag tggagttcag acctcattcc tatatcattg cagtgtggat 240  
 gctcctggat gaaggctctt gtaggtaact ctctccagc cggtgattca gggaccacagc 300  
 ctctttctgc cttgcggtt tgccttttaa aggtcctcag ggtgctctcc atgtatcttg 360  
 ccaatgggga acgagtgtgg aggactcaca agcgggtcyc acatcacgtc ctccggggct 420  
 aatacacatc ccttctcccc acactctgtt ggtcagaagt cactgcttgg cgccctgc 478

<210> 70  
 <211> 719  
 <212> DNA  
 <213> Homo sapiens

<400> 70  
 gaattcggca cgaggagaaa ggaggggaagg cacagcgctg ggcagagatg ccagaaaacc 60  
 tagttctaata cttggccttg ctgctgtcag tgtgtggcct taagcaagtc atttttctct 120  
 cggcctcaat ttactctaaa atgtgtaccc tcatagctac taagaaagt gttgcaaaaa 180  
 ctagaaatga tgcttactgg tatttaatta gtctcaaaca catagtaggc ttttaacaat 240  
 tagtggctgt cattttcatt attattaggc gcttcaattt ttacatgttg gcaatctcaa 300  
 acataccatt ttcttttttt taaaaccctt ttttttkttt ttttttttga gacagaatct 360  
 ccagcctggg agacagagca agaccgtgtc tcagaaaaaa gtggggccgg gtgcagtggc 420  
 tcatgcctgt aatcccagca ctttgggagg ccagggcggg cggtacaca gatcaggaga 480  
 tcgagaccat cctggctaata gcggtgaaaa catgtctcta ctaaaaatac aaaaaattgg 540  
 ctgggcttgg tgggtggcg cgttagtccc agctactcag gaggtgagg caggagaatg 600  
 gcgtgagccc gggaggcgga gcttgcaagt agcagaaatt gcgccactgc actccagcct 660  
 gggcaacaga gcgagactct gtctccaaaa aaaaaaaaaa aaaaaaaaaa aaaactcga 719

<210> 71  
 <211> 519  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (24)..(24)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (35)..(35)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (44)..(44)  
 <223> n equals a,t,g, or c

<400> 71  
 accaaaagct ggnagctccc accncggttg gccgnccgct ctangaacta gtggaatccc 60  
 cccggggctg caggaattcg gcacgaggtt ttgttttgtt tttttctaata cctgctttca 120  
 tactagccag tgtggggaaa aggtacaata tgtcaaagag atgagagagt gttattttctt 180  
 gggcaatttt ctattagtgt ttcttatttt ggccagttct tttatttatg tccttgtgac 240  
 ccaggtactt gggggggccag ctacccttct ggccttttag cgtctttgaa ggagaccaga 300



```

catgagtgaac tacctaggag agtgtcagca tgtttctgga aaattggcag agaccaagcc 360
ctgctgcaga ttcgtcaggc cagggtgaaag ggccaggcag ttgcagctga tgatgtaaatt 420
atTTTTgtaca gtagataaaat aaatgttttaa aaaaaaaaaa aaaaaaaaaa aaaaraaaaaa 480
aaarwaaaaa aaaactcgag gggggggcccg gtacccaat 519

```

```

<210> 72
<211> 826
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (726)..(726)
<223> n equals a,t,g, or c

```

```

<400> 72
ggtcgaccca cgcgtccggc tccctttgtt ttgggtggcag ccttcttctg ctgtatactt 60
gttcccttagg gtgtataata atatgtgcac tagagtgcta ggtaccctac cacattgctg 120
ggaccttgcc acactgctgc agccttccag taggatattg ggaatgtca gtgaggctcc 180
agggatgtag atatgtaggg aatgttggac cccaggggcaa catgcaatct ggtaggagtt 240
gggctctcaa aatgggtgctg ctgtgtaaca gctgcttggg tcttggggta gggagtgtag 300
gaccagcat gagctccctc tttggagcag tgctgtctga gactccaggc agctccgtgt 360
attagtctca ggacctgcaa aggcctaggg gctctttttg ggtaggactg caggagtctc 420
catggtggga atgtgaacca ctggaaatct ctcatttacc atttccctgt actggagatg 480
ctttctgggc tcccagatga tactarctgg gctggttgcc tcamttcctt ctccctctgt 540
gcataaggca ttttctgtca cttctctgct gaactctagt gttctttctt agaggctgta 600
ctcaaagttt cattatccat tcagtatttt tattcttctt tgtggagggt gcaagtgtca 660
ggtgccctcta gtcaatcatc ttgaagcccc ctgttatgtt aaagtcttta atggaaaaag 720
aagacnacat gcatgaccag gcagatactt tgagcagagt cataggaact gctaaaaaaa 780
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gcggcc 826

```

```

<210> 73
<211> 911
<212> DNA
<213> Homo sapiens

```

```

<400> 73
gaattcggca cgagacgaca atggggaaac cggtgtttcc cacctcttgt gggtagaaaag 60
cagtctgctt tgaggaggcg agaaggcaaa gccaggggcag ggcgttctg tgggaagcgt 120
tcggtgaaag crggtttcga cgcttaggag ggccgagggg gaagattcca ccagcattgt 180
ccttgcttca agtttttagga tgtctgaact ttcagctttc atgttttcaa ccatcatttt 240
tttaattggca caacctacat cttgttttta aaagaagtag cctcaaatta aactcctaaa 300
ctctgatgcc ctggggatga gaacaactag ctkggatctc gtgccgtgta atcaatgttt 360
cattccgctg cctccatcat gtaatagaat cgcttccaga aaggcagtta actggaagca 420
gcagaggctc ccagccgtga gaggactgct caacaatgcc ccccatcgcc gccccccac 480
ccctcgcaac ccttgtgttt tccctctga ggggccaag ggttatggct ttcattgtct 540
gggtgtggga cagaggaggg agaggcagat ccygggccgg gagaggatgg ccttggctct 600
aatctggagt aattaatgcc cacccaaaga aaaggccctg cccagggtcca atgttgtctt 660
agatctgatg atgctgctat ttacaaaaca ctgatcgctc gaaagcttga atctgttctt 720
cctcgaatga ccctgtagat gcctgacctc caccgtacct ccacatcact attcatgtcc 780
ttctaggaaa atgtgcacat gcctcacgca ctatgtggga agggcgtgtt tttaaattaa 840
taaagtgtgt caccattagc catamraaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
aaaactcgta g 911

```

```

<210> 74
<211> 722
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```



<223> n equals a,t,g, or c

gnaattcggc	acgagaaaaa	tttacgggta	acactgaggg	gtgggggtgga	aagttttgat	60
cataaaagtgg	tcaccaacaa	gggcacttct	gaggtgctaa	tgatgttctg	ttttctgatt	120
tgggtcgtgg	tgacattcac	atattcatta	aattgtacat	ttgttttaca	taagttttatt	180
atatttccta	atttttaaaaa	agttaaaagg	aggaggaaaa	agttgggttat	gaaagtgtaa	240
ccattcttcc	aaaatatcaa	ttaaaacaca	tctgaattaa	gaggtaaaaat	atatcaaaga	300
ttgacagaaa	acaaaagctc	tgaatatgata	tttccagcct	aaaaacagtc	gttgcttttg	360
ttgttttagg	aagatttgtt	ctcctgaact	aatgttcaaa	atgaaaaaaaa	gtcacctggg	420
ccaggagcag	aggcccacac	ctgtaatccc	agcacttttg	gaggccgarg	tgggtggatc	480
acaaggtcag	gagatcgaga	ccatcctggg	taacgtgggtg	aaaccccatc	tctacaaaaa	540
tacaaaaaat	tagctgggct	tagcgggtggg	catctgtagc	cccagctact	ctgggagattg	600
aggcaggaga	atggcatgaa	cctgggaggt	agagcttgca	gtgagccgag	atggcgccac	660
gtgaccagcc	taggtgacag	agcgagactc	cgtctcaaaa	aaaaaaaaaaa	aaaaaaaaactc	720
ga						722

<211> 845

<212> DNA

<213> Homo sapiens

gattttacac	agaacatatt	ctctgcatga	tttcagaaaa	gaaaatctaa	aaaggtaata	60
cggttatttc	aaataaaatc	ctttctggta	tgaagggtc	cattgatttt	attaagcctt	120
cctttacctt	gtagtacaag	gtgctttaat	gggatagaac	taagcatatc	aatatctata	180
actgcatttt	gtgctagaca	attactgttc	ttttctctaa	aatgtatatg	tcaattttaca	240
aggccagga	tagaaaaacac	tccataattg	ctttccctga	ttttgctgag	gattttggat	300
gatttttagta	agcaaactgt	tttttggttt	ttccttaatg	tttttaattt	tttttcctct	360
tgaacaatg	acggtgcatg	tctctataaa	tatagggaagg	tccagatata	aatagtaacc	420
taaagttcct	gctgtgctta	aaaaaaaaaa	tcatgtggcc	ctttcaatat	ttgaactgct	480
aagcaatgac	atctgtagtt	ttatctcctt	ttttatgtca	tagaaattaa	tatgatactt	540
taaatatgta	aatataatac	attaggtaat	gctattattt	atatctgtct	taacataatt	600
taagttgtag	ctgtgtcctg	gaaatatattt	taaggtaatc	tatattcaca	ttgctctgtg	660
taatgctttt	taaagtttgt	atacatcaga	tgtatatttt	tggtttgga	taagctacga	720
ttgtaatttt	tcttggcctt	ttgttcataa	agaatttttt	gaaggaaatg	taacaaatgg	780
ttttttacaa	atggttgtaga	ataaacacat	ttttcactt	aaaggwaaaa	aaaaaaaaaa	840
ctcga						845

<211> 882

<212> DNA

<213> Homo sapiens

<221> misc feature

$$\langle 222 \rangle \quad (881) \dots (881)$$

<223> n equals a,t,g, or c

gaattcggca	cgagatgttt	tcttcactca	aaaaatttta	tattctcaaa	catgtatatt	60
ctttccctgt	cttgttccat	tttcttttct	ttttctttt	ttctttttcc	tttctttcgt	120
gggctgagaa	aggggcaggc	aaaatgaagc	tggccactga	aaactgtaag	atgggtcaaaa	180
gctgacagcc	tgtgtatgtg	aaaagggaat	tgtaaatgga	ctgcaatgta	atgtacactg	240
taatttgaat	acaattactg	tatctaaaag	gagctgctat	gaagtacctt	tcttatgttg	300
ctaggctact	gtttctgaaa	gccctggatc	tctttgcacc	aaaaatggtc	cagatagact	360
ctttttaagg	atcttggctg	cttttttacta	gaaggttgct	tttatgagca	tattttact	420
gctgaagat	gagtgttaat	tttaattaac	tttgcggtt	tgtagagaaa	actattccac	480
aagataaatt	ccaagtcttt	tcacctgtca	ggcatgcata	ttttaatatc	tgtttgata	540
gtcagaagta	gaatcataaa	ggtaaaatat	gagttgttac	tttgtttctt	cgatgtcata	600



```
<210> 77
<211> 1590
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1397)..(1397)
<223> n equals a,t,g, or c
```

[illegible]

<400> 78







```
<210> 81
<211> 1987
<212> DNA
<213> Homo sapiens
```

[illegible]



```
<210> 82
<211> 2053
<212> DNA
<213> Homo sapiens
```

```
<210> 83
<211> 1193
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1186)..(1186)
<223> n equals a,t,g, or c
```



```

<400> 83
ggtegaccca cgcgtccgca ccgaagccca gaggggtctgg gggcacaaga ctgacgccag      60
ggtatgaaga gtgttatttt cattcaaagt gttattttgt ttttccttcc aatgtctgga      120
gaccaccagg gcatctctgg gctggatgag ctcccacaag cctgagggaa aggccagcac      180
tcgctagcag tggcaggcag agggcccagg tgccgtcccc tagagtccca ggttggtctt      240
gccagtgcct gtccctttacc aaagatgaat gaagcaaagt tcatgctgcc ttattcaggg      300
aaggaggagc ctgtcctgcc tgtggccatg accctgcctc tcccaggcag gggcccgcga      360
tgtggaactg ctgccactga ggggggatcc agttttgtca atgcagttgt ctctgtttta      420
caagttggag tcactcttat gctgtacca gtttctaaac tggagactgt gtgtgccctc      480
tggctctgag tacccttgc tggggcttgg gcctaggctg cattgaaaag agctgaaggt      540
tgtggccttt gcgctcctgg cccagccttt gttccccact ggagcagaag gggagatgga      600
cgacacggts ggggcatctg gcctggccag tgccctgatc ccagagagcc cgaggagggtg      660
tctcaggctg cctgagtcgt gacctgctag gccagagccc actccatctg gtagaaggga      720
aagcccataat gctaccacca gctgtgtcca aaaccgccag ctctgttctt cctcagccag      780
cctcgcccat ccccttgagg tctcagcccc tttcccttgt agtccttccc ctggaggggg      840
aatggcagca ggggttgggg aaacagcctc tccaagcagc ttagagttgg ccatatttac      900
ctcagcctgg gcgctggctc tttcttccgg cccctccctc ccaaaatgtg cctattgcta      960
gagctcctcc ctctcaacac ccagtttctt tgggagttgt cattaaagga aaaaaaaaaa    1020
aaaaaaaaaag ccagtgccca gggatgggca tctccaggga gctggggatt agtgccaggn    1080
agccctgccca gccatgccta catccccatg ggcacagaac aagccaaagc cttcgttgta    1140
tgttgacgat gcacttttat gaaatgtagt ttctatcgct gtttttagcc ttt          1193

```

```

<210> 84
<211> 541
<212> DNA
<213> Homo sapiens

```

```

<400> 84
caggagcaag gctttgtgct atatctacat aatcttagac cctgttcctt ccaattccag      60
ggatatgctc ttaaccactg cagtataagc ctccccgcya cactctgagt ggagcagagg      120
aagggtgttt tgtctttgag aaaggcaagg atgaagggca agatttgagc catgggtggta      180
gatcagaaaag aagatctgat aacaggctta gggatcaaaa tggtaaggaa atggcttcag      240
gggagtcagg cctggccctt ggagagggag gagagggaa ggctaggctc tttatgtaca      300
tgctgtccat ggggcctggg aagattcmtg gaatacctaa cccatttcac aggtgaggca      360
attgagcctc tcagagctga agtaactgac ccaaagcctc cgtgctcttg tgtggcagag      420
ccagaagtca aatccaggtc tctgtgamct caaggggcac caaartgagt atcaaaaagg      480
cagaaaggga cttatccctt cactcactca gcaaaagcat agtaagcagg tggcgtgcct      540
t

```

```

<210> 85
<211> 985
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (633)..(633)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (642)..(642)
<223> n equals a,t,g, or c

```

```

<400> 85
ggcacgagca cccccctg agaccaggga gcatttattc aaggaaacac ttgtctttag      60
aggatgttga cgatgcccc aacttactgt agctgtcagg aaaattaggt gagctattta      120
gtatcattga gcttcatttt acagaaccag catgttgtcc ttagacttcc ctctgactct      180
tttaggtctc aacttacata ttgccctctt gagccttcta gttcccagac tgagtttagga      240
accccaaccc atgctggact cagttagtcc tttccacatt gtgctgtaat tggctatacc      300

```







```

cttcaagtct gtctttcttg ccatgggtgta cagcaattat aggaagcatt ttcacatact 360
gtgtgtgtgt gtgtgtgtgt tttgtagtga tgaacagaac ttgttatatta cccaattcta 420
ttatctatca taatagtaaa ttagctacta taatagacaa aagtatgact ctcagttaaa 480
taagagattt tttaaaaact tgttacaaaa aaaaaaaaaa aaararaaar aaaaaaaaaa 540
aaaaaaaaa gggcggcc 558

```

<210> 88

<211> 931

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (930)..(930)

<223> n equals a,t,g, or c

<400> 88

```

gaattcggca cgagaaccag atgtttttcc acacagaatg ctagttcttt aagacacagg 60
ctgggtgaca tgtttcctta gagtgacaat atttccttat agtgacattt tccttgactg 120
gctccatgca gaataggagg atatagaata ggaggagaag gtttctgctg tggcacctgg 180
agtggctactt ggtgcacgcc aggtgctaga caatgtgtgt gacaaggatg cacgtgaaat 240
gcccccccc gagtgctca gtgactgcag taaagtggcc cttgtcatgg tcctcttcct 300
ctttctgcat cagtcttcat gctgggcggc atgaagagag aaacaaaaac cacctttctt 360
gccagggtct tagtaccatt tgctgctctt atctttcaag taaggagaga catctaagaa 420
acttatcacc gtattcattc tagactgtta gggrtttaac tcttcaccta cttccctgag 480
tggctctgggc tggargttca gagctaartg ggctgggtgt aaatcaggat tccgtccctc 540
amtagnetgt aggcgtgtgg taattcactt catctctctg agccttcatt ttctcacctg 600
aaaattgggc atgctaatac ttttccatct ccttcccagg gttcacagga ttaaatgaaa 660
ttattaacac aaagtctctg gcctggtagg gggcatgtac gtggccaccg tcctgggtgct 720
ggacactggg gtaagagttt ggaagctatt ggctgggcaa ggtgggtcac gcctgtaatc 780
ctagcacttt gggaggctga ggcagggtga tcacgagggtc aggagattga gaccatcttg 840
gctaacacgg tgaacacccg tctctactaa aaatacaaaa aaaaatttag ctgggcgtgg 900
tggcatgcgc ctgtagtccc atctactcgn a 931

```

<210> 89

<211> 588

<212> DNA

<213> Homo sapiens

<400> 89

```

gattcggcac gagatcaaaa tggccagttc tgtgacagta aaagagggtt gtgtcttatt 60
taatcttttg ataataataa cagctatggt gtatcacagc tttaccaagt accagacact 120
gttctaaggg ctttgcattg ttcactcact ccttacgtca tccctcggtg gcagggtgctg 180
taattatcct tatattgcag acaaggacat tgagacagag gtcaagccac cttccaagg 240
gcacacatgg catctgcact gctcctgacc gaccgacaga gagagctgct gtcacgatcc 300
tcaaatgagc tatgcatgtc aaaagttaa aaataaaaaa gataaaaaca tgcacaaaat 360
ttaaaaagta aaccatttca agctggacag actaaaactg agagatggcc agagaagagt 420
atgaaagata aatctatgga cagagtaaac cctgactggc ttgaaattag ggcccttact 480
cctccacact cctgacgggt tggttcaaga ccargaawta gaagcmcmmt gtgagttcta 540
cgstgctgcc ctgggaaaca cacaggctaa acacaccac aggcctga 588

```

<210> 90

<211> 812

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (443)..(443)

<223> n equals a,t,g, or c



```

<400> 90
gaattcggca cgagtatggc ccttcctttgg cttctgggta tttaaaaaga gctcttggga      60
ctcttctgag gtcttcctgg gagcagaaca gtacacatgg tctggaattg gggtgcatgg      120
aataactttc aaggaaagcc actgaataaa gtgccctgca ttcctgtcca ttggatactg      180
ataatgctat aagatgatct ttctcttctt tattttgttt gagattattg tgactctctg      240
gctaactcct acttatacctc aggccttttc tgaactcaca attcaaatta cagctccctt      300
tggttctctt ccacagcagt tgtacttaca tatgtctatt atataattat gaattgtttc      360
atattgtcgc ccttacaggt aaactaatga atttggggct ccatctgttt gctcaccact      420
tgatcctggc agtagcacac aanggctgct caatacctat ttactgaatg agcaaakgga      480
ctggaccact tttagagact ggagtatttc cttawaccak gtgagattga wttttgagga      540
cagtttacca ctggaagctt ttgcagaact aaggctcattt ttacagtata cataacctct      600
gctgtgtttg ttgatactgt aagtttacat tttcttatga ctctttttta gtagagcacc      660
cctgtgttta ggaaagctag agctattgtg atgcctttga gtttgcttgg ctgattgctg      720
ggacttgaac tactgagctt atctaaaagc ctcagaggcc ttgtagcctc tgtcttttag      780
agagtgtagg taaaggcttg ttttccctca aa      812

```

```

<210> 91
<211> 1882
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (12)..(12)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (565)..(565)
<223> n equals a,t,g, or c

```

```

<400> 91
ttcggcacgg anactggaag gaaagaaaga aaggctcagct ttggcccaga tgtgggttacc      60
ccttgggtctc ctgtctttat gtctttctcc tcttcttatt ctgtcatctc cctcacttaa      120
gtctcaggcc tgtcagcagc tcctgtggac attgccatcc cctctggtag ccttcagagc      180
aaacaggaca acctatgtta tggatgtttc caccaaccag ggtagtggca tggagcaccg      240
taaccatctg tgcttctgtg atctctatga cagagccact tctccacctc tgaaatgttc      300
cctgctctga aatctggcat gagatggcac aggtgaccac gcagaagcca ccagaatytt      360
gcctgcccta ttctctctcc caagtctgtt ctcttattgt caacctcagc acaacaggct      420
ggcgccaatg gcattacaga gaaagcaatc tgtgtggcta gtgggcagat taccatgcaa      480
gccccaggag aatggagga gctttgtagc cactccctg tcasccagta ttaacatgtc      540
cccttcccc tgccccgcc taganttcag gacattcgcc cctgtgtgcc accaaaccag      600
ggactttccc cttsssttgg gttggcatcc ctgggctctc tctgggtacc cagcaagacg      660
tctgttccag ggcagggcac gagctttcaa gctccgttac tatggcgatg gccatgatgt      720
tacaatccca cttgcctgaa taatcaagtg ggaasgggaa gcasagggaa atggggccat      780
gtgaatgcag ctgctctgtt ctccctaccc tgaggaaaaa ccaaagggaa gcaacaggaa      840
cttctgcaac tggtttttat cggaaagatc atcctgcctg cagatgctgt tgaaggggca      900
caagaaattg gagctggaga agattgatga aagtgcagggt gtgtaaggaa atagaacagt      960
ctgctgggag tcagacctgg aattctgatt ccaaactctt tattactttg ggaagtcact      1020
cagcctcccc gtagccatct ccagggtgac ggaacccagt gtattacctg ctggaaccaa      1080
ggaaactaac aatgtaggtt actagtgaat accccaatgg tttctccaat tatgcccata      1140
ccacaaaaac aataaaacaa aattctctaa cactgcaaag agtgagccat gcctgttaac      1200
actgtaaaga atgtaacatg tgggggacac acaggggcag atgggatggg ttagtttagg      1260
atcttattag tgcatgccct accctctggg cgaacgtccc ctctgagggt ttcttctcgg      1320
tggggggatt taacttctgt cctagggaaa acagtgtctg atgaggagtg tttccaacac      1380
aggctacatg aattccccta taccagtgcg aaagcagcca ggagtccccg ttggaaaaga      1440
acaatgccac tctcttttat gtatcttggg tctgcaactc atttgttgta agtaggggta      1500
atcgagtatc aggttcacag tatcctgccc ttattatttt atgattcact gactcaagtt      1560
ccacgaagtc cttagaaatg gacctcttca tgtaaaatat cttgagaata ataatgtga      1620
gggaataaga aaggcaagct ttggacacag atatgatagg tgcatacagt tcggaagaga      1680
agaatgatgt gcagagtgtt aggaagacat ccgggctgct gagactcggg attagaagaa      1740

```



agagaggtaa	ataaagtggg	tcctggaatc	ttttaggact	tctgctgtag	gacaaacagc	1800
tgcccttggg	gttttaaatg	ctcccaaagt	acccttcagc	caataaatac	catctgttgg	1860
tgcaaaaaaa	aaaaaaaaaa	aa				1882

<210> 92  
 <211> 1391  
 <212> DNA  
 <213> Homo sapiens

<400> 92						
ggtaaatacc	aaggtaatta	aattttttaag	ttctgagtat	tagaggtaat	ggttactgta	60
gctcctaaaa	tgacatcac	atctctggta	gggtctggaa	ccctcatggg	actgctgctt	120
ttaatatttc	ttttggaatg	tttctttgta	gctgaagcct	tagtgatgag	aagttagaaa	180
tactctcatt	gacctttagt	gttttgcct	gttgatatat	atcaagttcg	cttagtttga	240
cattgtttga	acttattttcc	ctaagcaaaa	aacagccaga	aagaagaaaa	tccagaacat	300
gtagaaattc	agaagatgat	ggattccctc	ttcttaaaat	tggatgccct	ctcaaacttc	360
cactttatcc	ctaaaccgcc	tgtaccagag	attaaagtgt	tgtcaaactc	gccagccata	420
accatggagg	aagtagcccc	agtgagtgtt	agtgatgcag	ctctcctggc	cccagaggag	480
atcaaggaga	aaaataaagc	tggagatata	aaaacagctg	ctgaaaaaac	agctacagac	540
aagaaacgag	agcgaaggaa	aaagaaatat	caaaagcgta	tgaaaataaa	agagaaggag	600
aagcggagaa	aactgcttga	aaagagcagt	gtagatcaag	cagggaaata	cagcaaaaca	660
gtagcttcgg	agaagttaaa	acagctgacc	aaaactggca	aagcttcctt	cataaaggta	720
aggacaaggg	aaagaaaact	gctcaagggg	acctttgtgg	gggaagtgga	tagcaagtgc	780
tgggtgactg	gaatgtctga	gccagctgac	agcccacctg	tgggatagag	atgcatgatg	840
ctgactggct	ggaatcgcaa	cctttaatgt	tctagaattt	ttcacgtagg	gtcctcacaa	900
taacctgggt	cctggcgaca	gcttgtcttc	cactcctttc	tctcttagat	tataagaaca	960
ttgtagcagt	gcagaatacg	tctatgctaa	ctgattccag	ttttctgtaa	ttctagtccc	1020
tttttcatat	ttatgggttc	atacatgttt	gtaatggtga	tgtactattt	ttggcttttt	1080
tcacttataa	gtacatttta	cagcataagc	atgtggtgtt	tttaattgca	ggatgaaggt	1140
aaagacaagg	ccttaaaagtc	ctctcaagca	ttcttttcta	aattacaaga	tcaagtaaaa	1200
atgcaaatca	atgatgcaaa	gaaaacagaa	aagaaaaaga	agaaaagaca	ggatatttct	1260
gttcataaat	taaagctgta	atatattttg	aatataatgt	aaatattaat	gtgtaagcct	1320
atattgtgtc	attgttctgt	tttataataa	aattcttgag	aaccttcaaa	aaaaaaaaaa	1380
aaaaaactcg	a					1391

<210> 93  
 <211> 930  
 <212> DNA  
 <213> Homo sapiens

<400> 93						
gaattcggca	cgagctaagt	cctgatatcc	catgatgttt	tttgttttac	tttgtttttg	60
gctatttctt	ttttctaaaa	atagccctct	ctgggggaatg	ctgagatctt	cattctttat	120
tagtatcaat	ttataattat	ctacatctgt	aagcagttat	tcgaaagtct	ccagatctta	180
ttctatcctg	gcacccatgg	tgactaaaaa	aatcaaagac	gttaaatctt	tgaaagcagc	240
cttcaaacca	catactccaa	ccaacttacc	ttatatgtcg	gggagttatg	gagcaaatat	300
attaattaac	ttgacagaag	ttgcacactt	tctgtacttc	tgaacaaaaa	tttggatgca	360
tgtttttctt	tatcatgagt	cacacctgat	taggatttcc	ttagcttttg	ttggggctcag	420
acaggattgt	gaccaaaggc	aagatttctc	tgtcatctct	tttgacagaa	tttccacaat	480
catggatttt	gtaatagtcc	tggacattca	tcagaaaagta	acctgtagtg	gggctgccta	540
cataggattc	ttcctttgaa	aagccttaaa	cattttttcta	atggttggtc	tctcttaact	600
aacaataaaa	aacagcaaca	atgcasctgg	gcacagtggc	ttttgcctgt	aatcccagca	660
ctttggggagg	cccaggcagg	tggatcaact	gaggtcagga	gtttaagacc	agcctggcca	720
acatgtgaaa	ccctgtctct	acgaaaaata	caaaaattag	ccggatgttg	tgttgacacac	780
ccgtagtccc	acctactggg	gaggctgagg	caggagaatt	gcttaaacc	aggaggcaga	840
gcttgcatgt	agctgaaatc	gtaccacagc	actccagcct	gggcaacaga	gtgagactcc	900
atatccaaaa	aaaaaaaaaa	aaaaactcga				930

<210> 94  
 <211> 998  
 <212> DNA



<213> Homo sapiens

<400> 94

ggcacgagggc	ttaagtcaag	ccacctgata	agtcttgtaa	ccactggaga	gatgagcagt	60
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<210> 95

<211> 830

<212> DNA

<213> Homo sapiens

<400> 95

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cctaatatca	aagtgatatt	tcttcctcca	ggcaccacct	ctttgatcca	cacaatggat	180
caaggagtta	tagcagcttt	taagttctac	tacctgagaa	gggaggactt	ttgccagtc	240
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gctccttaag	aagtctgaaa	acatggaccc	caaaactgaa	aggttttcac	taatagagag	720
gaaagttcat	ggtgcattat	ctgcctacaa	gcaaaaccag	gattcaaaaa	accctttgag	780
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<210> 96

<211> 867

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (457)..(457)

<223> n equals a,t,g, or c

<400> 96

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aagaaccact	gacttcttta	catgaagcct	actttgagta	agtttttagg	tacagatgct	300
gaattaccca	agctgtatcc	accctcactc	caggcacccc	gaggagagac	tcaactgctt	360
ggcccagggg	tagagaggcc	cacacgggaa	ggcagagtgg	agcagatgtt	atttaaccaa	420
aagtctgtat	cctggggctc	ccagctacca	cagtcangaa	acacattttt	aaaaaatcma	480



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agttaattca	agtctgaatc	ccagaaactc	tcctgaaatc	aagccacagt	tcagccctat	660
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ctgctactcc	ggacgcgtgg	gtcgacc				867

&lt;210&gt; 97

&lt;211&gt; 545

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (7)..(7)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (16)..(16)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (41)..(42)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (87)..(87)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 97

tcacttncgg	ttccgntcga	tgtggtgtgg	attgtgagcg	nntacaattt	cacacaggaa	60
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cggcacgaga	ttcgctgcct	aattccacca	tgatgtttta	ctatgcatgc	tttatcttat	240
actcatctct	ctctctctct	tctctttctc	tttctccctc	cctcctttct	ctattataat	300
ttagtcatct	tattttttga	ggcatttcag	aatatatcac	acttgtccta	aatacttcag	360
tatgaacatc	attaactaga	atattattct	tgttttactt	ctgatgtgaa	ayttatataa	420
atacaacatg	ctatgaattt	gttttccmaa	aaaccaatca	acaatttawt	aagcatggka	480
acaaaaaacc	tgaaggcttt	atctttttaga	gtagtagttt	ttaaaaaaa	aaaaaaaaac	540
tcgta						545

&lt;210&gt; 98

&lt;211&gt; 722

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (251)..(251)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 98

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gccccaggct	tgagatagaa	ctagggagcc	cagtgaggcc	ttttctttcc	ttaaattaaca	240
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attgaaaaat gaaaaatctt tcccatgtaa tttgagtaat agccaggaac ccactcactt 600
tgaaggccct tctaagaaca aagaaaagta tatggttata gatggcagca tgaaaaggaa 660
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ga 722

```

<210> 99

<211> 753

<212> DNA

<213> Homo sapiens

<400> 99

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cagggtagca tttcaagagg gataaggtag acgtttctgg cctgttgtgg ttaggctgt 180
gaattaccat aacatcactt ctttgagatt ttcttggta aggcaaatca catgacaagg 240
actcaagagg gtagagaaat aggttctact atttagtgga aaggacagca aagtgcacatc 300
acaaagagga atgcatatag agatgggggg aatatgtgac caactttagt aatcactgta 360
attctgaatt gactcacaaa cactatcaag acggatcatt gtcataccct agttcaaaaa 420
gcagtccttg cagcaatata gaacagatag aagtgaagag aatgtgattt tgctaaaaat 480
gacatattta catgaccagt gatgggtgag acctatgaaa aatccccaga gattctcaag 540
aactcataaa gtgcatttcc atatttatgt agaatatcaa tctcctgctg tctttgactt 600
cacctagtat attcctaggt atgtgtatct aagcccaagt tggctctcacg tttttgccta 660
cttccgagtc aatatgtgac atgccatccc accttttgt gttaccacat tattataaca 720
taaggggtgg ttatgtttcc tggatatctt gag 753

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<210> 100

<211> 696

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (605)..(605)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (648)..(648)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (655)..(655)

<223> n equals a,t,g, or c

<400> 100

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ctactccaca aaataat ttttttttgc agtgaaaaat taactgcatt attaactaat 180
taataaaaata aatcaagtgg tataagggat tagtttacc tcaagccgat gactccatgg 240
ctactgatat tagttagttt wggattttta aaaagcatat cagaccccca gtttcaggaa 300
ttgagtataa atattgcttc ttgtcaccct gggacagtaa tgccttatag tggcactagt 360
caccttaagt agattacaca tgggtgaggt gaataaagct gcatgggaat ttgctttcgt 420
gatatat ttttgc aaac ttctacataa tcaagtttta tgtttaaaac catcggttct 480
atatatctag ctttaggaag ttgcccttac aggtgggacc ttttgtgtta atctgttttc 540
tccccagtc tcttattggc tatgttataa aaaaaaaaaa aaaaaagggg ggcgcgtcta 600
kaggn tccaa gcttacgtac gcgtgcatgc gacgtcatag ctcttctnta agggncacct 660

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696

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<210> 101
<211> 455
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> (431)..(432)
<223> n equals a,t,g, or c
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cccggtgacc	agccccgagt	gactcacgga	ccatgagcta	gaagctgcc	ttgcaggagg		180
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cgctgactg	aagacatgaa	ggacctagcc	taggagtggc	cagggtcccc	ggagtgggcca		300
gggtcccgtg	tgtkcccttc	gccagtcttc	gctctgtccc	cgttcaatca	accccatctc		360
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<210> 102
<211> 389
<212> DNA
<213> Homo sapiens
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<400>	102						
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ttagctacac	tcaaacactt	attgaattga	aattatgcac	atgtttgatt	tagtgatatg		180
gtattacaaa	acaccaatac	cctgttaatt	gtttctgcct	ttcttctttc	catgctgttt		240
ttcaaaatfff	ctattgctat	atttctagtc	actaaactgt	cttttgaaag	gtctaatactg		300
ttgttagggc	cattccagtga	tttgttttta	aatttttaagt	aatttatctc	tataagttct		360
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<210> 103
<211> 960
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> (460)..(460)
<223> n equals a,t,g, or c
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ggagatgtac	atagaaattc	attgaggtat	atagatactc	atctgtctag	gcagttccca		120
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tttttgtttt	atattttaatt	ataaaccaaa	atacatttgc	atttttaagc	taatttgtct		420
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aggtattgac tagtttcata aatTTTTtgm aagTTTTtct ttcattgggtt ggaaagcaga 900  
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<210> 104  
 <211> 1442  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1377)..(1377)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1419)..(1419)  
 <223> n equals a,t,g, or c

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 <211> 598  
 <212> DNA  
 <213> Homo sapiens

<400> 105  
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<210> 109  
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 <212> DNA  
 <213> Homo sapiens

<400> 109  
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<210> 110  
 <211> 1146  
 <212> DNA  
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 tctcttaagt tgtaaagagt tttaaatgat ccgtgttgaa ggcaatsct gcyaaatgca 780  
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<210> 111
<211> 1333
<212> DNA
<213> Homo sapiens
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<220>  
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<222> (493)..(493)  
<223> n equals a,t,g, or c
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<221> misc_feature
<222> (496)..(496)
<223> n equals a,t,g, or c
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<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (633)..(633)
<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (1330)..(1330)
<223> n equals a,t,g, or c
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agagaactac	tcccccaggt	atatctgcag	cattctctggc	ttgccttggac	ctccagggcc				240
ccctggagca	aatggttccc	ctggggcccca	tggtcgcata	ggccttcacg	gaagagatgg				300
tagagacggc	aggaaggag	agaaaggtga	aaaggggaact	gcaggtttga	gaggtaagac				360
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caatgttcat	aaatatTTaa	gcaaattaaa	gacaatgtta	acaaattttc	tattaaatgc	1260
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<210> 112

<211> 1140

<212> DNA

<213> Homo sapiens

<400> 112

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<210> 113

<211> 1575

<212> DNA

<213> Homo sapiens

<400> 113

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aatgatagcc	gtctgccaga	atgtggctct	gagtgcagag	gacaagcttc	ttatgcgaca	360
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aaaaaaaaaa	ykcga					1575

<210> 114  
 <211> 334  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (321)..(321)  
 <223> n equals a,t,g, or c

<400> 114						
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cttagtgaaa	atcttaacct	attcaacatc	acttatggta	agtataactt	atctttccta	180
tacagggtatt	aaatatataa	tttatatgcc	agtcacattt	cctcacacta	aataaggcag	240
cagacacata	tattttaatat	catgggtatg	catttttaggt	tctaaaacct	aagggtatgtg	300
gattttcttaa	agccatatct	naaatatttt	cacc			334

<210> 115  
 <211> 866  
 <212> DNA  
 <213> Homo sapiens

<400> 115						
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tccaaaccaa	aaaggacttt	gaatacaaaa	cttttaagaa	atcttgtatg	aatacaagct	180
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tgtggttact	atgcaaagaa	tgctgggtgt	gctgtttttt	tttttttctt	tggtggctat	300
taaccagcg	gagacaatat	gtggctatgg	tagtacttgg	aagttctagc	attacacaga	360
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gacaaagtca	tgctttgcag	attttaaaat	aaactttttg	ttactcttac	agcttgggtat	540
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tctggatcat	agaaaatagt	aagtttaaaa	tacagaatat	ttccaagcta	actacaaatc	660
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ccaaaaaaaa	aaaaaaaaag	gcggcc				866

<210> 116  
 <211> 462  
 <212> DNA  
 <213> Homo sapiens

<400> 116						
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gctcaatta	cctcctttct	tattttcttt	cctttgttga	ctctcatact	ctgttctcct	180
aattctcccc	cttttccact	ccctgcccac	cctgaaagac	acacacacac	acaataagtg	240
ggtggagtaa	gaagtcaacg	gagttggata	taagcattcc	tgcttttctg	acatctccag	300
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tttctctgtg	ttacttaagc	tttcacccca	agcatgtttg	acagagagcc	agtgcatctcc	420
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<210> 117



<211> 1500  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (71)..(71)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (73)..(73)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (755)..(755)  
 <223> n equals a,t,g, or c

<400> 117  
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 acatccctct gtcccggccc aagcgaaacc tctcccgga ctttagcgat ggagtccttg 180  
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 ggctgaactt ttcagtaccg gatgacgtga tgcgcaagat cgcgcagtgc gccccaggcg 360  
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 gcccgtagca gtcgcccctc cctcctcgcg cacgggggtac tgaggcgga ggtttgaagg 1440  
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<210> 118  
 <211> 360  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (340)..(340)  
 <223> n equals a,t,g, or c

<400> 118  
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 tccccctgca gtgctgcgga atgccacaac ttatccctcc tctccagctg tagtttagta 180  
 tccagtaaca tactcttttc atttcctttc tttgggcaga aggctagatg ttgcctgttt 240



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<210> 119  
 <211> 823  
 <212> DNA  
 <213> Homo sapiens

<400> 119						
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tttcagaagt	taacatcaag	ccatcaaacc	tgggtatagt	gcagaaaacg	tggcacacac	180
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ctttgcagtg	gggctaggac	agttgattca	acaaagtatt	tttttctttt	ttctcagtc	360
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gccatgtgcg	gaattcaagt	taccaatgta	acactggcca	gcggggccag	caatctccat	600
gtgtacttat	tacagtctta	tttaaccagg	ggtcctaacc	actaacattg	tgactttgct	660
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<210> 120  
 <211> 456  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (456)..(456)  
 <223> n equals a,t,g, or c

<400> 120						
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gatagaacgt	ttttgtaggc	attcctcctc	atgggagagg	atagagtaca	tgcgagtttt	180
tgctctcctc	ccaccctttc	acaagagcac	tgtgctttct	tttcttctct	ttttcctttc	240
tttttttttt	tttaggcagg	gtcttgctgt	gtcascagg	ctggaatgca	gtgggtgcaat	300
catagctcac	tgcagccttg	acctcctgga	ctcaagcaat	cctcctgcct	taacctccca	360
gctactcagg	agaccgagac	aggaggacca	cttgagccca	ggagggttag	gctgcagtga	420
gccgagattg	caccactgsa	mtccagcctg	gggaan			456

<210> 121  
 <211> 553  
 <212> DNA  
 <213> Homo sapiens

<400> 121						
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aaaaaaaact	cga					553



<210> 122  
 <211> 1158  
 <212> DNA  
 <213> Homo sapiens

<400> 122  
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 caatagggct gaatgaattt accaaaggaa gctgccttat attatatgcc aggctgctgg 180  
 ggaaagcctc aggtcctggc cagcccctgt tctcacaaga acatgcagggt taccacataa 240  
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 catgctactc tgtgcttttc cttgggctcc aaattctagc tcataaagat gcaagttttg 420  
 caatttccta taaatgggta agaaaagagc aagctgtcca gagagtgaga agtttgaaaa 480  
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 cagatcagca atgtcttagc ccctctctc tcttccattc cttcctgttg gtactcattt 840  
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 ccttaaccta gccctgcaga taaaagctaa cttttattaa taccagccct gaataatggc 1080  
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 aaaaaaaaaa aaaaaaaaaa 1158

<210> 123  
 <211> 554  
 <212> DNA  
 <213> Homo sapiens

<400> 123  
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 acggagtttt gccacattgg ccaggctggg ctcaaactcc tgacctcaag tgatccaacc 180  
 accttggcct cccaagggtg tgggattaca ggcatgagcc actgtgcctg gctccattta 240  
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 cagagggctg tgcgcacaga ctgctggacc tttcccagc ttctgattcc gtccctccag 360  
 agtggggctc gaagattgcc tttgaggtga rgctgcgggt cggggggcacg tctgagaact 420  
 gctgcagagg tgartgctgt ggctctgtct gcattcccc tggaaagactg argcaccagg 480  
 tgtgctgggt ctaacagacc acaagtccct cctggacact gcccttctct gaagggagct 540  
 gctcctcac tcga 554

<210> 124  
 <211> 1255  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (541)..(542)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1156)..(1156)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature



<222> (1162)..(1162)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1223)..(1223)  
 <223> n equals a,t,g, or c

<400> 124  
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 aaatgatctg agatttttaga tctacattat tgttactttt taacattatg tatcttctgt 180  
 ttcaagaagg cttttgatgt ttgagtttaag ttccataagc ttttaaaca gcathtagac 240  
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 cattattttca actcatttca cagttgtctt tggtagtctt ttttagtactt ttttaaggaa 360  
 cagatgggtg atacagtatt atatgttctt gccttctctga agatacttgt gttcaataga 420  
 gcgtaacatt tttttccac agtgactttt ccttcagaat actaaagtca cagaaagtta 480  
 tcacatcaac ttaatgttgc ccaagagaag tccaaactct ttgcgcttct tttgtaggtt 540  
 nntttgggtt atctccccc aatgatgttt atagattctt tattctttct tcttgggaaca 600  
 aagaaatttc attgggatat gtttttaaaa atagatctct ttttattatt tttgcatggt 660  
 actagatgag acatttttagt gcatagatgc aagtcttttt tcaactctgg gaattttact 720  
 tctatggaat ttttttttct ttccctaata ttttttctact ctttttctta tcccttagaa 780  
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 aacccatttc agttgtgctt cttgctgttt ggctgcctga ttcaatcagt ggcagaaaat 1020  
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 agctgatctg ccatgnttaa angttttcct ttgtaaaacca tttggtgtgg gtatttttta 1200  
 aatttctca gtatgatccc agngggcatt aactgtccaa aaaaaaaaaa aaaaa 1255

<210> 125  
 <211> 1977  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (664)..(664)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (716)..(716)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1319)..(1319)  
 <223> n equals a,t,g, or c

<400> 125  
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 ggtccccgct gtgtgtgccc ctcaggcggc caccagccct accaggctct cccctcccg 120  
 caggctcttcg ccttgatcgt gttctcctgc atctatggtg agggctacag caatgcccac 180  
 gagtctaagc agatgtactg cgtgttcaac cgcaacgagg atgcctgccg ctatggcagt 240  
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 cccagatca gcaacgccac tgaccgcaag tacctggtca ttggtgacct gctcttctca 360  
 ggtatctgcc tgtggcacct ccatttgatc ttgggggagg cattaactct agggttccgc 420  
 agctgggagg gtctcggcct ctctgggagg ggcaggagc agctcactcc tccagggcat 480  
 ttttaggaaa gggttttcag ctagtgtttt tccgtgcttg aatggcacca gccctgacct 540



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ccttttgtcc	cctaggetgt	ctgctgtggc	ccaccctgcc	aaggcccgag	tgtgggggac	660
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atgcccgcc	tgggatgctg	tttgagagcg	gaataaatgt	tttctcattc	aaaaaaaaaa	1920
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaggcgccg	cgctcgcat	ctagaac	1977

<210> 126  
 <211> 738  
 <212> DNA  
 <213> Homo sapiens

<400> 126					
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ctcttcacac	tggccttact caaaatgcag attccaggag tcaggctatc tcactgcctt 180				
cttacttaca	attcttatac cagaacaccc ttccctctcc cctcatctga atcttacctg 240				
gtttttgaaa	tttaagtcag ggccttctta ggaagatttc cctgattcag atccaagttg 300				
aattatgata	accctccttt ggctcccata aaatcttata acttcctaac tgtgttttat 360				
gaatagttgt	ctagtttagc actatgtcag gagctattga cagcagggct gggcacagtg 420				
actcacagct	gtaatcctag ccctttgaga ggacaagggtg ggaggactgt ttgaggacac 480				
ctcaagccca	tccagcctag gcaacagaat gagatcttgt ctgtacaaaa aaacaaaaga 540				
ttaattgggc	gtggtgacgt gcacctgtag tcccaactac ttgagagget gaggcaggag 600				
gattgtctga	ccccaggaga tcgaggctgc agtgatccat gatggtgtca ctgcactcca 660				
gtctgagcaa	cagagcaaga cccaccccc caaaaaagct attgagggta gcagtttact 720				
ttcattgctc	tacctcga				738

<210> 127  
 <211> 988  
 <212> DNA  
 <213> Homo sapiens

<400> 127	
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gacaacaaat	ccaccctggc aagaattatt gctcagggcc tcataaagca caacgcagaa 180
agccgaattc	agaacatcca ctttggggac agactgaatg cctcagcaca agtggcccca 240
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ttctcggcaa	atatctcact tgaatttgac cttgaattga gaccgtcctt cgataacaac 420
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tttggccgga	gggatctggt gataggcaaa tgcgatgcag agcccagcag tgtccatgtg 540
gccatcctca	ctgaggctat cccaccaaag atgaatcagt ttctctacaa cctcaaagag 600



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ctgtgctgat	ggtccaggta	tgtcctctga	tcgggtgaaat	cctcgggcag	ctggatgtga	720
aactgttgaa	aagcctcata	gaacaggagg	ctgctcatga	accaaccac	catgaaacca	780
gccaaacctc	tgcattgccag	gctggagagt	ccccagctg	acttctgctg	atcagaagga	840
aagtccacat	cttgcaacct	taagtctccc	ttagagtggg	gcttctgcta	ccctaaaaac	900
tttaccacag	gctctgtgga	cataccatcc	tctcctacaa	taaactctag	ctctgaaggg	960
tgaaaaaaaa	aaaaaaaaaa	cggcacga				988

<210> 128  
 <211> 912  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (906)..(906)  
 <223> n equals a,t,g, or c

<400> 128						
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atctctgttc	ccaccctagc	cttggacaat	tctgcatcta	ctttgtagct	ctataaattt	120
gccttttctg	gacatttcat	gtaagtcgat	cacacagtat	gtgttccttt	gtgactggct	180
gcttttgctt	agcatgacgt	tcttggggct	cgcaacgcag	cttgtgtctg	ttgttcattc	240
cttttgacgc	agaatcgtat	tctgttgttt	ggatgggcca	cctgtttgtt	gtctgtttac	300
tctccagctg	gtggacattt	aggccgtttg	cactggcggt	tactgtgaat	catgtcgctg	360
tgaacattgt	gtgtgtgtct	gcgtggactt	gtgtgtcctg	ttctctggga	aggagttgcg	420
ggtttagargg	tagttttttg	tttccctgg	agactctctg	gtttccacat	atggtagttt	480
tatgcttaac	cttttgagaa	attgccaaat	ggctttctga	agtggccacg	tcattttgct	540
ccctccagcc	gtttgtaatg	ttcccatttc	tcctatgtgt	aattttaata	caaagcagta	600
aaaagttgcc	attatggacc	tagtaaattc	tgaggtaaca	taagagagaa	ataatgatgc	660
agccgtcatt	actgtgctgg	taatgtaagt	ttcctttttt	tttgttttta	aatggagctt	720
tgcagagatc	aagtcgagag	aagaacactg	ggccagcctg	actccaaagc	ctactctctt	780
aagcgctttg	ctgactttgtg	atgtttttaa	atctagcatt	attttcaa	gctgtgagag	840
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aatcanttta	at					912

<210> 129  
 <211> 569  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<400> 129						
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gaaaatttgt	ttgagatttt	tatatcatct	tgtcaaatgt	cttcagttgt	aaatgtgaaa	120
aatgggctgg	ggaaaggagg	tgggtgcctt	aattgtttta	cttggttaact	tgttcttctg	180
cccctgggca	cttggccttt	gtctgctctc	agtgtcttcc	ctttgacatg	ggaaaggagt	240
tgtggccaaa	atccccatct	tcttgacact	caacgtctgt	ggctcagggc	tgggggtggc	300
gagggaggcc	ttcaccttat	atctgtgttg	ttatccaggg	ctccagactt	cctcctctgc	360
ctgccccact	gcaccctctc	ccccttatct	atctccttct	cggtccccca	gcccagtcct	420
ggcttcttgt	cccctcctgg	ggctcatcct	ccactctgac	tctgactatg	gcagcagaac	480
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aaaaaaaaaa	aaaaaaaaaa	aaaactcga				569

<210> 130  
 <211> 646  
 <212> DNA







<210> 132  
 <211> 2119  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1424)..(1424)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1438)..(1438)  
 <223> n equals a,t,g, or c

<400> 132  
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 ggtgtcgggtg gtcgcagcct tggcgctggc ggtactggcc cccggagcag gggagcagag 180  
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 agatccaaat tataacaacat ggatggatgt catggagagg catggctacc gaacacaaaa 480  
 atttgggaaa ctggactata cttcaggaca tcaactccatt agtaatcgtg tgggaagcgtg 540  
 gacaagagat gttgctttct tactcagaca agaaggcagg cccatgggta atcttatccg 600  
 taacaggact aaagtcagag tgatggaaaag ggattggcag aatacagaca aagcagtaaa 660  
 ctggttaaga aaggaagcaa ttaattacac tgaaccattt gttatttact tgggattaaa 720  
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 acctttgtca gaaatgcacc ctgtagatta ttactcttct tatacaaaaa actgcactgg 900  
 aagattttacw aaaaaagaaa ttaakaatat tagagcattt tattatgcta tgtgtgctga 960  
 gacagatgcc atgcttgggtg aaattathtt ggcccttcat caattagatc ttcttcagaa 1020  
 aactattgtc atatactcct cagaccatgg agagctggcc atggaacatc gacagtttta 1080  
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 gcagtgaact gagattgcgc cactgtactc cagcctggca acagagtga actgtgtcgc 2100  
 aaaaaaaaaa aaaaaaaaaa 2119

<210> 133  
 <211> 694  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature



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<210> 135
<211> 537
<212> DNA
<213> Homo sapiens
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<220>  
 <221> misc\_feature  
 <222> (429)..(429)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (502)..(502)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (520)..(520)  
 <223> n equals a,t,g, or c

<400> 135  
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 agcatccctg gatgctgaga ggtactctct aggaggcaga aacaggacca agcactgccc 120  
 acttatctcc acactatgct accaattcac ctgcagtggg catgtgcttt caggagtttt 180  
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 aaaagtaata ttctgttctt caacttcaac agagaataat agtgaaagaa tgggtgatatt 420  
 tttcctaana tggactaaca agtatcctga gttgggaggt gacttccaat agtaaacaat 480  
 aaaataactg agaaaatgga gngaggaggg aggggagagn gagagtgggc acagaag 537

<210> 136  
 <211> 917  
 <212> DNA  
 <213> Homo sapiens

<400> 136  
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 tcatcacctc tatcctctcc tccctggcca gcctcctgct cctggccttc ctggcagcgt 180  
 ccaccgcacg cttgagccct cagtcacttc cagagacctg ataccggggg tagtcagggc 240  
 aaccacctgg aggaagtggg ccaggagctg cttctagaag gaaggaaagg gagagactgc 300  
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 ggaggaggcc ccggagcagc tgagaattgg ctccctcatg gggaaagcgt acatgaccca 420  
 ccacatccca cccagcgaag ccgccaccct gccctggggc tgtgagcctg gcctggaccc 480  
 cctccccagc ctcagccctc agcctggccc ttgtggctgg ggcgtgtgtg gctgtggcca 540  
 gtgtgggggg aaggacgtgg tagttattcc cagccctgc accctcctcc tcacccctgc 600  
 caaagtccca ctgatgtagg acagatgtca gggttctaga cgtctttggg gcaaaaagg 660  
 gggttttatt aagcacagg acaggaccca tgggcaggga gagcggcacc ggggtggtga 720  
 ggagtggccc gttatatata ctttcgagtt gggagggtct agagagagcg taagtctcta 780  
 aggaattttg gaagcaagg ctccagggtc ctgagggggc tagctgttgt taggaaaagg 840  
 tcattttatta ctgttttagta aaaactttca ccagaaaaaa aaaaaaaaaa aaaaaaaaaa 900  
 aaaaaaaaaa aaaaaaa 917

<210> 137  
 <211> 1384  
 <212> DNA  
 <213> Homo sapiens

<400> 137  
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 ggaggaagcc cgatcagccc caggctgtgg atgtgggaga agggcgagct cagggggcca 120  
 tcatgggggt cccccagagg caacctggcc tatcagggtc gctcctcctc gtgtggggc 180  
 tggcctggcc cctgccttgt atgagcttgg agctgatccc ctacacacca cagataacag 240  
 cttgggacct agaagggaag gtcacagcca ccacgttctc cctggagcag cctcgctgtg 300



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<210> 138

<211> 1720

<212> DNA

<213> Homo sapiens

<400> 138

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<210> 139

<211> 1566

<212> DNA

<213> Homo sapiens



<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1540)..(1540)  
 <223> n equals a,t,g, or c

<400> 139  
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 gagtttctct cttgctcatg taaagactgg tcagggaccc aggttgacag aggtcttcca 240  
 gtacatagct tccaagattg ctgtgggtgt gacatccagc cagaaatctg gtgaagagag 300  
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 ccaacatccc actcaccaga atttgggtcac agggccatag ctatctgcag agaangctgg 420  
 gaaatggaac ttagctatgt gctcaagagg aaaagtaaaa cagttattga ataattagta 480  
 ataattagca agtaactacc taggggtcac agaggacctc tcaggtagaa tttagactta 540  
 aagatgatgg gggagtgtgt ggaagatggg tgcagaatag ggaaaggggg gattgaagga 600  
 agaacaagct ctagcttcac ctgcatgggt agagcccaca gtgttggtag ggacatgtta 660  
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 cagagagaga ctttgtctc aaaaccctcc catttcagaa gtgaggagcc tggggagggtc 840  
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cagtttccca ttccagtgt ctttctatga ggaaagtata agtttgagca tttttaaacc 960
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<210> 140
<211> 774
<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

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<220>
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<222> (709)..(709)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (716)..(716)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (733)..(733)
<223> n equals a,t,g, or c

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cggctggaga agaggtatgg gaggttcgat gtttcaggga tggcacccaa ggggggacat 240
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ctgtcagcct caaagggtctg aaccctagta tagattcttg tagcttgcct gaagttacag 660
tggtgcatga tcaggaattg atgctttgtt tttgtnttga aacggagntn cgccantgca 720
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<210> 141
<211> 1294
<212> DNA
<213> Homo sapiens

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<400> 141
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aaactgtaag	aggcacagat	gactccacca	gctgcagagt	gactctgaag	agagtcttca	180
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ccacctcccc	ccacccccat	ctccaggagg	caggtagagc	agttctgacc	gagaggatag	300
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	cgta			1294

<210> 142  
 <211> 680  
 <212> DNA  
 <213> Homo sapiens

<400> 142						
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<210> 143  
 <211> 1168  
 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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<210> 144  
 <211> 930  
 <212> DNA  
 <213> Homo sapiens

<400> 144						
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<210> 145  
 <211> 830  
 <212> DNA  
 <213> Homo sapiens

<400> 145						
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gaaagttcat	ggtgcattat	ctgcctacaa	gcaaaaaccag	gattcaaaaa	accctttgag	780
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<210> 146  
 <211> 865  
 <212> DNA  
 <213> Homo sapiens

<220>







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470

<210> 149

<211> 1766

<212> DNA

<213> Homo sapiens

<400> 149

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gaagcttagt	aaccagcgcc	aaaaagtaga	ttcatcaaac	tagagacccc	agctcccctt	660
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taacggttma	aaracacaca	cacacataca	caaaccgttt	ctatgagaga	ttgatgaact	1680
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Ala	Ala	Gly	His	Pro	Glu	Cys	Cys	Arg	Leu	Ser	Arg	Glu	Pro	Gly	Leu
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Cys	Pro	Glu	Glu	Ala	Gly	Lys	Cys	Pro	Pro	Gly	Ala	His	Ala	Cys	Gly
	50					55					60				

Pro	Ala	Phe	Ser	Pro	Ser	Xaa	Arg	Asn	Ser	Lys	Gly	Leu	Phe	Cys	Xaa
65					70					75					80

Asp	Ala	Pro	Gly	Phe	Xaa	Arg	Gly	Pro	Gly	Pro	Thr	Xaa	Thr	Xaa	Asn
				85					90					95	

Glu	Ile	Asp	Ser	Trp	Pro	Lys	Gly	Ala	Cys	Pro	Glu	Arg	Asn	Leu	Asp
			100					105					110		

Ile	Asn	Ser	Ala	Leu	Thr	Gln	Gly	Arg	Thr	Ala	Val	Pro	Gly	Ala	Cys
		115					120					125			

His	Leu	Gly	Ile	Xaa	Gly	Thr	Gly	Ala	Gly	Ala	Gly	Ala	Gly	Leu	Pro
	130					135					140				

Phe	His	Ser	Arg	Asn	Pro	His	Ala	His	Ala	Pro	His	Xaa	Pro	Trp	Val
145					150					155				160	

Thr	Pro	Val	Ser	Ser	Asp	Pro	Val	His	Met	Ser	Pro	Leu	Glu	Pro	Arg
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Gly	Gly	Gln	Gly	Asp	Gly	Xaa	Ala	Leu	Val	Leu	Ile	Leu	Ala	Phe	Cys
			180					185					190		

Val	Ala	Gly	Ala	Ala	Ala	Leu	Ser	Val	Ala	Ser	Xaa	Cys	Trp	Cys	Arg
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Leu 210	Gln	Arg	Glu	Ile	Arg	Leu 215	Thr	Gln	Lys	Ala	Glu 220	Tyr	Ala	Thr	Ala
Lys 225	Ala	Leu	Ala	Thr	Pro 230	Ala	Ala	Thr	Pro	Asp 235	Leu	Ala	Trp	Gly	Pro 240
Ala	Pro	Gly	Thr	Glu 245	Arg	Gly	Asp	Val	Pro 250	Leu	Pro	Ala	Pro	Thr 255	Ala
Thr	Asp	Val	Val 260	Pro	Gly	Ala	Ala								

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35 40 45

Ile Ser Ser Ser Ala Ser Ser Ser Leu Glu Thr Pro Val Arg Leu Tyr  
50 55 60

Gln Asn Met Phe Cys Ser Ala Glu Asn Cys Ser Glu Glu Thr His Ile  
65 70 75 80

Thr Ala Phe Thr Val His Val Ser Ala Glu Glu His Phe His Phe Val  
85 90 95

Ser Gln Cys Cys Gln Gly Lys Glu Cys Ser Asn Thr Ser Asp Ala Leu  
100 105 110

Asp Pro Pro Leu Lys Asn Val Ser Ser Asn Ala Glu Cys Pro Ala Cys  
115 120 125

Tyr Glu Ser Asn Gly Thr Ser Cys Xaa Gly Lys Pro Trp Lys Cys Tyr  
130 135 140

Glu Glu Glu Gln Cys Val Xaa Leu Val Ala Glu Leu Lys Asn Asp Ile  
145 150 155 160



Glu Ser Lys Ser Leu Val Leu Lys Gly Cys Ser Asn Val Ser Asn Ala  
                             165                            170                            175  
 Thr Cys Gln Phe Leu Ser Gly Glu Asn Lys Thr Leu Gly Gly Val Ile  
                             180                            185                            190  
 Phe Arg Lys Phe Glu Cys Ala Asn Val Asn Ser Leu Thr Pro Thr Ser  
                             195                            200                            205  
 Ala Pro Thr Thr Ser His Asn Val Gly Ser Lys Ala Ser Leu Tyr Leu  
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                             20                            25                            30

Phe Val Ile Trp Leu Leu Ser Pro Tyr Thr Lys Gly Ala Ser Leu Ile  
                             35                            40                            45

T00T01"0404560



Tyr Arg Lys Phe Leu His Pro Leu Leu Ser Ser Lys Glu Arg Glu Ile  
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 Asp Asp Tyr Ile Val Gln Ala Lys Glu Arg Gly Tyr Glu Thr Met Val  
 65 70 75 80  
 Asn Phe Gly Arg Gln Gly Leu Asn Leu Ala Ala Thr Ala Ala Val Thr  
 85 90 95  
 Ala Ala Val Lys Ser Gln Gly Ala Ile Thr Glu Arg Leu Arg Ser Phe  
 100 105 110  
 Ser Met His Asp Leu Thr Thr Ile Gln Gly Asp Glu Pro Val Gly Gln  
 115 120 125  
 Arg Pro Tyr Gln Pro Leu Pro Glu Ala Lys Lys Lys Ser Xaa Gln Pro  
 130 135 140  
 Pro Val Asn Gln Xaa Val Met Glu Phe His Xaa Lys Thr Xaa Met Xaa  
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 Lys Gln Xaa Lys Lys Gln Arg Gly His Ile Gln Ile Met Arg Cys  
 165 170 175

<210> 154

<211> 197

<212> PRT

<213> Homo sapiens

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 Gly Glu Thr Ser Trp Thr Asn Thr Asn His Leu Ser Leu Gln Val Trp  
 35 40 45  
 Leu Met Gly Gly Phe Ile Gly Gly Gly Leu Met Val Leu Cys Pro Gly  
 50 55 60  
 Ile Ala Ala Val Arg Ala Gly Gly Lys Gly Cys Cys Gly Ala Gly Cys  
 65 70 75 80  
 Cys Gly Asn Arg Cys Arg Met Leu Arg Ser Val Phe Ser Ser Ala Phe  
 85 90 95  
 Gly Val Leu Gly Ala Ile Tyr Cys Leu Ser Val Ser Gly Ala Gly Leu  
 100 105 110  
 Arg Asn Gly Pro Arg Cys Leu Met Asn Gly Glu Trp Gly Tyr His Phe  
 115 120 125  
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Cys Phe Asn Pro Met Arg Cys Pro Ala Met Val Ala Tyr Cys Met Thr  
35 40 45



Thr Arg Thr Tyr Tyr Thr Pro Thr Arg Met Lys Val Ser Lys Ser Cys  
 50 55 60  
 Val Pro Arg Cys Phe Glu Thr Val Tyr Asp Gly Tyr Ser Lys His Ala  
 65 70 75 80  
 Ser Thr Thr Ser Cys Cys Gln Tyr Asp Leu Cys Asn Gly Thr Gly Leu  
 85 90 95  
 Ala Thr Pro Ala Thr Leu Ala Leu Ala Pro Ile Leu Leu Ala Thr Leu  
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 Trp Gly Leu Leu  
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Pro Ala Leu Cys Lys Ile Phe Leu Asp Glu Ser Ala Pro Asp Asn Val  
 35 40 45

Leu Glu Val Thr Ala Arg Ala Ile Thr Tyr Tyr Leu Asp Val Ser Ala  
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86

Glu Cys Thr Arg Arg Ile Val Gly Val Asp Gly Ala Ile Lys Ala Leu  
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85 90 95  
Leu Ala Glu Gln Cys Val Lys Val Leu Glu Leu Ile Cys Xaa Pro Glu  
100 105 110  
Ser Gly Xaa Val Phe Xaa Ala Gly Gly Leu Asn Arg Val Ala Tyr Leu  
115 120 125  
Pro Ser Val Asn Ser Gly His Leu Val His Lys Asp Thr Leu His Ser  
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Ala Met Ala Val Val Ser Arg Leu Cys Gly Lys Met Glu Pro Gln Asp  
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Ser Ser Leu Glu Ile Cys Val Xaa Ser Leu Ser Ser Leu  
165 170

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Tyr Thr Ser Thr Gln Ser Leu Phe Asn Ser Leu Gln Thr Ala Glu Tyr  
20 25 30  
Val Leu Phe Cys Gln Gln Arg Leu Ser Leu Tyr Glu Pro Ser His Val  
35 40 45  
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Thr Ser Gly  
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Lys Asp Leu Gly Val Pro Asp Thr Lys Ala Ala Phe Leu Leu Thr Ile



Demographic		Cognitive		Emotional		Behavioral		Social		Physical		Health		Quality of Life	
Variable	Mean (SD)	Variable	Mean (SD)	Variable	Mean (SD)	Variable	Mean (SD)	Variable	Mean (SD)	Variable	Mean (SD)	Variable	Mean (SD)	Variable	Mean (SD)
Age	65.2 (10.5)	MMSE	24.5 (3.2)	Depression	15.8 (8.5)	Activity	12.5 (4.5)	Loneliness	18.5 (7.5)	Walking	15.5 (5.5)	Cholesterol	185 (45)	Life Satisfaction	65 (15)
Gender	Male: 55%	Trail Making	18.5 (4.5)	Anxiety	12.5 (6.5)	ADL	10.5 (3.5)	Support	15.5 (5.5)	Balance	12.5 (4.5)	Blood Pressure	135 (25)	Health Status	75 (15)
Education	12.5 (2.5)	Block Design	22.5 (4.5)	Stress	10.5 (5.5)	IADL	8.5 (3.5)	Isolation	12.5 (4.5)	Vision	18.5 (5.5)	Glucose	105 (20)	Life Expectancy	85 (10)
Income	\$15,000 (10,000)	Verbal Comprehension	18.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Hearing	15.5 (5.5)	Weight	175 (25)	Life Satisfaction	65 (15)
Marital Status	Married: 45%	Matrix Reasoning	20.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Balance	12.5 (4.5)	Height	170 (10)	Life Satisfaction	65 (15)
Religion	Protestant: 35%	Block Design	22.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Vision	18.5 (5.5)	Weight	175 (25)	Life Satisfaction	65 (15)
Employment	Retired: 60%	Verbal Comprehension	18.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Hearing	15.5 (5.5)	Height	170 (10)	Life Satisfaction	65 (15)
Health Status	Good: 40%	Matrix Reasoning	20.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Vision	18.5 (5.5)	Weight	175 (25)	Life Satisfaction	65 (15)
Life Satisfaction	65 (15)	Block Design	22.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Hearing	15.5 (5.5)	Height	170 (10)	Life Satisfaction	65 (15)
Life Expectancy	85 (10)	Verbal Comprehension	18.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Vision	18.5 (5.5)	Weight	175 (25)	Life Satisfaction	65 (15)
Life Satisfaction	65 (15)	Matrix Reasoning	20.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Vision	18.5 (5.5)	Weight	175 (25)	Life Satisfaction	65 (15)
Life Expectancy	85 (10)	Block Design	22.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Hearing	15.5 (5.5)	Height	170 (10)	Life Satisfaction	65 (15)
Life Satisfaction	65 (15)	Verbal Comprehension	18.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Vision	18.5 (5.5)	Weight	175 (25)	Life Satisfaction	65 (15)
Life Expectancy	85 (10)	Matrix Reasoning	20.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Vision	18.5 (5.5)	Weight	175 (25)	Life Satisfaction	65 (15)
Life Satisfaction	65 (15)	Block Design	22.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Hearing	15.5 (5.5)	Height	170 (10)	Life Satisfaction	65 (15)
Life Expectancy	85 (10)	Verbal Comprehension	18.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Vision	18.5 (5.5)	Weight	175 (25)	Life Satisfaction	65 (15)
Life Satisfaction	65 (15)	Matrix Reasoning	20.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Vision	18.5 (5.5)	Weight	175 (25)	Life Satisfaction	65 (15)
Life Expectancy	85 (10)	Block Design	22.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Hearing	15.5 (5.5)	Height	170 (10)	Life Satisfaction	65 (15)
Life Satisfaction	65 (15)	Verbal Comprehension	18.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Vision	18.5 (5.5)	Weight	175 (25)	Life Satisfaction	65 (15)
Life Expectancy	85 (10)	Matrix Reasoning	20.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Vision	18.5 (5.5)	Weight	175 (25)	Life Satisfaction	65 (15)
Life Satisfaction	65 (15)	Block Design	22.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Hearing	15.5 (5.5)	Height	170 (10)	Life Satisfaction	65 (15)
Life Expectancy	85 (10)	Verbal Comprehension	18.5 (4.5)	Life Satisfaction	65 (15)	ADL	10.5 (3.5)	Loneliness	18.5 (7.5)	Vision	18.5 (5.5)	Weight	175 (25)	Life Satisfaction	65 (15)
Life Satisfaction	65 (15)	Matrix Reasoning	20.5 (4.5)	Life Satisfaction											

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<210> 162



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Table 1. Demographic characteristics of the study population	
Age (years)	18-24
Gender	Male
Marital status	Married
Education	High school
Occupation	Unemployed
Religion	Islam
Income (TL/month)	1000-1500
Health status	Good
Smoking status	Non-smoker
Alcohol consumption	No
Family size	3-4
Place of residence	Urban
Duration of residence in the area	10-15 years
Health insurance status	Yes
Previous medical history	No
Current medications	No
Stress level	Low
Social support	High
Life satisfaction	High
Health-related quality of life	High
Physical activity	Low
Dietary habits	Unhealthy
Sleep patterns	Irregular
Work-life balance	Poor
Financial stability	Low
Community involvement	Low
Healthcare utilization	Low
Health knowledge	Low
Health beliefs	Traditional
Health expectations	Low
Health motivation	Low
Health self-efficacy	Low
Health locus of control	Internal
Health decision-making	Individual
Health communication	Low
Health behavior change	Low
Health outcome	Low

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Gln Glu Gly Thr  
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&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 167

Met Tyr Ile Phe Tyr Leu Tyr Lys Ile Tyr Ile Tyr Thr His Ile Cys  
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Gly Ala Ala Phe Asn Val  
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&lt;210&gt; 168

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 168

Met Asn Glu Ser Val Tyr Asp Asp Ser Thr Ser Ser Tyr Thr Pro Ser  
 1 5 10 15

Leu His Ile Leu Gly Cys Leu Leu Leu Leu Phe Leu Gly Val Glu Arg  
 20 25 30

Ala Leu Glu Pro Phe Ser Gly Leu Cys Ala Ser Leu His Asp Val Arg  
 35 40 45

Pro Ile Val Asn Pro Leu Thr Ser Phe Ser Leu Ile Tyr  
 50 55 60

&lt;210&gt; 169

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 169

TOPT "04660"



[illegible]

Leu Phe Lys Val Thr Ile Leu Leu Gln Arg Val Cys Pro Glu Asp Ser  
20 25 30

Pro Ser Ser Ser Val Leu Pro Glu Ser Val Xaa Arg Glu  
35 40 45

```
<210> 170
<211> 116
<212> PRT
<213> Homo sapiens
```

<400> 170  
Met Thr His Lys Ser Leu Val Tyr Leu Trp Phe Leu Cys Ser Ser Val  
1 5 10 15

Ala Leu Ala Leu Gly Ala Leu Thr Val Trp His Ala Val Leu Ile Ser  
20 25 30

Arg Gly Glu Thr Ser Ile Glu Arg His Ile Asn Lys Lys Glu Arg Arg  
35 40 45

Arg Leu Gln Ala Lys Gly Arg Val Phe Arg Asn Pro Tyr Asn Tyr Gly  
50 55 60

Cys Leu Asp Asn Trp Lys Val Phe Leu Gly Val Asp Thr Gly Arg His  
65 70 75 80

Trp Leu Thr Arg Val Leu Leu Pro Ser Ser His Leu Pro His Gly Asn  
85 90 95

Gly Met Ser Trp Glu Pro Pro Pro Trp Val Thr Ala His Ser Ala Ser  
100 105 110

Val Met Ala Val  
115

```
<210> 171
<211> 41
<212> PRT
<213> Homo sapiens
```

```
<400> 171
Met Ser Val Leu Phe Val Ala Val Ser Leu Leu Ser Ser Ile Val Pro
      1              5              10             15
```

Asp Ile Gln Tyr Arg Leu Lys Thr Tyr Leu His Ile Asp Leu Trp Lys  
20 25 30

Thr Asp Thr Gln Val Leu Lys Asn Lys  
35 40

<210> 172



<400> 172															
Met	Gly	Phe	Pro	Gln	Arg	Gln	Pro	Gly	Leu	Ser	Gly	Leu	Leu	Leu	Leu
1				5					10					15	
Val	Trp	Ala	Leu	Ala	Trp	Pro	Leu	Pro	Cys	Met	Ser	Leu	Glu	Leu	Ile
			20					25					30		
Pro	Tyr	Thr	Pro	Gln	Ile	Thr	Ala	Trp	Asp	Leu	Glu	Gly	Lys	Val	Thr
		35					40					45			
Ala	Thr	Thr	Phe	Ser	Leu	Glu	Gln	Pro	Arg	Cys	Val	Leu	Asp	Gly	Leu
	50					55					60				
Ala	Gly	Val	Ala	Ser	Thr	Ile	Trp	Leu	Val	Val	Ala	Phe	Ser	Asn	Ala
65					70					75					80
Ser	Arg	Asp	Phe	Gln	Asn	Pro	Gln	Thr	Arg	Ala	Glu	Ile	Pro	Ala	Phe
				85					90					95	
Pro	Arg	Leu	Leu	Thr	Glu	Gly	His	Tyr	Met	Thr	Leu	Pro	Leu	Ser	Leu
			100					105					110		
Asp	Gln	Leu	Pro	Cys	Gln	Asp	Pro	Ala	Gly	Gly	Gly	Arg	Asp	Val	Pro
		115					120					125			
Leu	Leu	Arg	Val	Gly	Asn	Asp	Pro	Gly	Cys	Leu	Ala	Asp	Leu	Leu	Gln
	130					135					140				
Pro	Pro	Tyr	Cys	Asn	Ser	Pro	Leu	Pro	Ser	Pro	Gly	Pro	Tyr	Arg	Val
145					150					155					160
Lys	Phe	Leu	Leu	Met	Asp	Ala	Arg	Gly	Ser	Pro	Gln	Ala	Glu	Thr	Arg
				165					170					175	
Trp	Ser	Asp	Pro	Ile	Ala	Leu	His	Gln	Gly	Lys	Ser	Pro	Ala	Ser	Ile
			180					185					190		
Asp	Thr	Trp	Pro	Gly	Arg	Arg	Ser	Gly	Gly	Met	Ile	Val	Ile	Thr	Ser
		195					200					205			
Ile	Leu	Ser	Ser	Leu	Ala	Ser	Xaa	Leu	Leu	Leu	Ala	Phe	Leu	Ala	Ala
	210					215					220				







Phe Leu Cys Trp Tyr Arg Pro Ile Tyr Lys Ala Phe Arg Ser Asp Asn  
     50                    55                    60  
 Ser Phe Ser Phe Phe Val Phe Phe Phe Val Phe Phe Cys Gln Ile Gly  
     65                    70                    75                    80  
 Ile Tyr Ile Ile Gln Leu Val Gly Ile Pro Gly Leu Gly Asp Ser Gly  
                     85                    90                    95  
 Trp Ile Ala Ala Leu Ser Thr Leu Asp Asn His Ser Leu Ala Ile Ser  
                     100                    105                    110  
 Val Ile Met Met Val Val Ala Gly Phe Phe Thr Leu Cys Ala Val Leu  
                     115                    120                    125  
 Ser Val Phe Leu Leu Gln Arg Val His Ser Leu Tyr Arg Arg Thr Gly  
                     130                    135                    140  
 Ala Ser Phe Gln Gln Ala Gln Glu Glu Phe Ser Gln Gly Ile Phe Ser  
     145                    150                    155                    160  
 Ser Arg Thr Phe His Arg Ala Ala Ser Ser Ala Ala Gln Gly Ala Phe  
                     165                    170                    175  
 Gln Gly Asn

<210> 176  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 176  
 Met Thr Ser His Pro Ser Trp Arg Leu Ile Leu Val Thr Ser Leu Val  
     1                    5                    10                    15  
 Leu Gly Val Glu Pro Glu Glu Ala Pro Gly Glu Ala Gly Glu Gly Ser  
                     20                    25                    30  
 Gly Gly Gln Arg Thr Met Asp Pro Glu Gln Lys Trp  
                     35                    40

<210> 177  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 177  
 Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu  
     1                    5                    10                    15  
 Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys

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95

20	25	30
Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu		
35	40	45
Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Asp Tyr Trp Glu Gln		
50	55	60
Leu Arg Cys Leu Xaa Glu Arg Phe Thr Ile Thr Ala Gly		
65	70	75

<210> 178  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 178  
 Met Ser Val Lys Val Gly Ser Leu Leu Val Leu Val Tyr Phe Thr Leu  
 1 5 10 15

Gly Pro Val Val Ala Glu Leu Glu Val Thr Leu Pro Ser His Ser  
 20 25 30

<210> 179  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<400> 179  
 Met Ala Ala Leu Thr Thr Val Val Val Ala Ala Ala Ala Thr Ala Val  
 1 5 10 15

Ala Gly Ala Val Ala Gly Ala Gly Ala Ala Thr Gly Thr Gly Val Gly  
 20 25 30

Ala Thr Pro Ala Pro Gln Gln Ser Asp Gly Cys Phe Ser Thr Ser Gly  
 35 40 45

Gly Ile Arg Pro Phe His Leu Gln Asn Trp Lys Gln Lys Val Asn Gln  
 50 55 60

Thr Lys Lys Ala Glu Phe Val Arg Thr Ala Glu Lys Phe Lys Asn Gln  
 65 70 75 80

Val Ile Asn Met Glu Lys Asp Lys His Ser His Phe Tyr Asn Gln Lys  
 85 90 95

Ser Asp Phe Arg Phe Glu His Ser Met Leu Glu Glu Leu Glu Asn Lys  
 100 105 110

Leu Ile His Ser Arg Lys Thr Glu Arg Ala Lys Phe Gln Gln Gln Leu  
 115 120 125

Ala Lys Ile His Asn Asn Val Lys Lys Leu Gln His Gln Leu Lys Asp  
 130 135 140

Val Lys Pro Thr Pro Asp Phe Val Glu Lys Leu Arg Glu Met Met Glu



96

145		150		155		160
Glu Ile Glu Asn Ala Ile Asn Thr Phe Lys Glu Glu Gln Arg Leu Ile						
	165		170		175	
Tyr Glu Glu Leu Ile Lys Glu Glu Lys Thr Thr Asn Asn Glu Leu Ser						
	180		185		190	
Ala Ile Ser Arg Lys Ile Asp Thr Trp Ala Leu Gly Asn Ser Glu Thr						
	195		200		205	
Glu Lys Ala Phe Arg Ala Ile Ser Ser Lys Val Pro Val Asp Lys Val						
	210		215		220	
Thr Pro Ser Thr Leu Pro Glu Glu Val Leu Asp Phe Glu Lys Phe Leu						
	225		230		235	240
Gln Gln Thr Gly Gly Arg Gln Gly Ala Trp Asp Val Ile Thr Arg Thr						
	245		250		255	

Leu

<210> 180  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 180  
 Met Ala Phe Leu Leu Thr Leu Val Pro Leu Leu Pro Ser Arg Cys Leu  
 1 5 10 15  
 Gly Leu Glu Glu Met Ala Val Pro Asn Ser Thr Cys Ile Ser Pro Phe  
 20 25 30

Ser Cys Cys Tyr Gly  
 35

<210> 181  
 <211> 344  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (126)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (128)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 181  
 Met Glu Lys Ile Gly Ser Ser Leu Pro Gln Asp Asp Ala Pro Lys  
 1 5 10 15



Lys Gln Ala Leu Tyr Leu Met Phe Asp Thr Ser Gln Glu Ser Pro Val  
 20 25 30  
 Lys Ser Ser Pro Val Arg Met Ser Glu Ser Pro Thr Pro Cys Ser Gly  
 35 40 45  
 Ser Ser Phe Glu Glu Thr Glu Ala Leu Val Asn Thr Ala Ala Lys Asn  
 50 55 60  
 Gln His Pro Val Pro Arg Gly Leu Ala Pro Asn Gln Glu Ser His Leu  
 65 70 75 80  
 Gln Val Pro Glu Lys Ser Ser Gln Lys Glu Leu Glu Ala Met Gly Leu  
 85 90 95  
 Gly Thr Pro Ser Glu Ala Ile Glu Ile Arg Glu Ala Ala His Pro Thr  
 100 105 110  
 Asp Val Ser Ile Ser Lys Thr Ala Leu Tyr Ser Arg Ile Xaa Thr Xaa  
 115 120 125  
 Glu Val Glu Lys Pro Ala Gly Leu Leu Phe Gln Gln Pro Asp Leu Asp  
 130 135 140  
 Ser Ala Leu Gln Ile Ala Arg Ala Glu Ile Ile Thr Lys Glu Arg Glu  
 145 150 155 160  
 Val Ser Glu Trp Lys Asp Lys Tyr Glu Glu Ser Arg Arg Glu Val Met  
 165 170 175  
 Glu Met Arg Lys Ile Val Ala Glu Tyr Glu Lys Thr Ile Ala Gln Met  
 180 185 190  
 Ile Glu Asp Glu Gln Arg Glu Lys Ser Val Ser His Gln Thr Val Gln  
 195 200 205  
 Gln Leu Val Leu Glu Lys Glu Gln Ala Leu Ala Asp Leu Asn Ser Val  
 210 215 220  
 Glu Lys Ser Leu Ala Asp Leu Phe Arg Arg Tyr Glu Lys Met Lys Glu  
 225 230 235 240  
 Val Leu Glu Gly Phe Arg Lys Asn Glu Glu Val Leu Lys Arg Cys Ala  
 245 250 255  
 Gln Glu Tyr Leu Ser Arg Val Lys Lys Glu Glu Gln Arg Tyr Gln Ala  
 260 265 270  
 Leu Lys Val His Ala Glu Glu Lys Leu Asp Arg Ala Asn Ala Glu Ile  
 275 280 285  
 Ala Gln Val Arg Gly Lys Ala Gln Gln Glu Gln Ala Ala His Gln Ala  
 290 295 300  
 Ser Leu Arg Lys Glu Gln Leu Arg Val Asp Ala Leu Glu Arg Thr Leu  
 305 310 315 320  
 Glu Gln Lys Asn Lys Glu Ile Glu Glu Leu Thr Lys Ile Cys Asp Glu  
 325 330 335  
 Leu Ile Ala Lys Met Gly Lys Ser



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<210> 182
<211> 46
<212> PRT
<213> Homo sapiens
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```
<210> 183
<211> 73
<212> PRT
<213> Homo sapiens
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```
<210> 184
<211> 30
<212> PRT
<213> Homo sapiens
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<210>	185
<211>	31
<212>	PRT



<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 185

Met Ile His Val Leu Thr Phe Leu Leu Gln Xaa Tyr Ile Leu Ile Ser  
1 5 10 15

Lys Gly Lys Gly Asp Val Ser Gln Phe Val Lys Ser Arg Glu Tyr  
20 25 30

<210> 186

<211> 76

<212> PRT

<213> Homo sapiens

<400> 186

Met Phe Phe Leu Leu Ile Leu Cys Trp Leu Leu Cys Leu Ser Leu Ser  
1 5 10 15

Gly Leu Tyr Pro Arg Leu Leu Asn Pro Gly Gly Trp Leu Ser Leu Leu  
20 25 30

Ser Phe Gln Met Asp Tyr Gly Trp Ile Leu Pro Trp Gly Ala Cys Thr  
35 40 45

Val Arg His Gly Lys Pro Gly Met Gly Lys Arg Ser Gly Gly Ser Leu  
50 55 60

Pro His Leu Thr Ala Leu Val Leu Cys Leu Thr Ser  
65 70 75

<210> 187

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 187

Met Leu Ala Phe Pro Val Leu Leu Glu Val Ser Trp Ser Val Leu Phe  
1 5 10 15

Xaa Phe Ser Phe Phe Ser Pro Xaa Pro Ser Ala Pro Gln Pro Pro Thr  
20 25 30

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[illegible]

```
<210> 188
<211> 65
<212> PRT
<213> Homo sapiens
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```
<210> 189
<211> 109
<212> PRT
<213> Homo sapiens
```

```

<400> 189
Met Ile Lys Lys Asp Lys Tyr His Lys Lys Val Phe Leu Phe Gly Trp
  1           5           10           15

Phe Phe Cys Leu Phe Val Phe Phe Leu Arg Leu Ser Leu Ser Leu Leu
      20           25           30

Pro Lys Leu Glu Cys Asn Leu Gly Ser Leu Gln Pro Pro Pro Pro Arg
      35           40           45

Phe Gln Arg Phe Ser Cys Leu Ser Leu Leu Asn Ser Trp Asp Tyr Arg
      50           55           60

Arg Pro Pro Pro His Leu Ala Asn Phe Cys Val Val Ser Arg Gly Gly
      65           70           75           80

```



101

Val Ser Ser Cys Trp Pro Gly Trp Ser Arg Thr Pro Asp Leu Met Ile  
85 90 95

Arg Leu Pro Arg Pro Pro Arg Val Leu Gly Leu Gln Ala  
100 105

<210> 190

<211> 51

<212> PRT

<213> Homo sapiens

<400> 190

Met Arg Lys Ser Gly Ala Met Lys Lys Gly Gly Ile Phe Ser Ala Glu  
1 5 10 15

Phe Leu Lys Val Phe Ile Pro Ser Leu Phe Leu Ser His Val Leu Ala  
20 25 30

Leu Gly Leu Gly Ile Tyr Ile Gly Lys Arg Leu Ser Thr Pro Ser Ala  
35 40 45

Ser Thr Tyr  
50

<210> 191

<211> 80

<212> PRT

<213> Homo sapiens

<400> 191

Met Ala Phe Leu Pro Leu Thr Leu Thr Phe Cys Leu Ala Pro Leu Ala  
1 5 10 15

Pro Leu Leu Pro Ser Ile Trp Gly Pro Thr Pro Ala Ser Cys Val Val  
20 25 30

Trp Pro Leu Leu Thr Ile Leu Pro Val Pro Ala Gln Ala Ser Pro Ser  
35 40 45

Thr Asp Thr Ala His Leu Trp Gln Arg Pro Thr Thr Gly Ser Pro Thr  
50 55 60

Arg Leu Val Arg Pro Leu Pro Arg Pro Gly Leu Pro Pro Met Trp Ala  
65 70 75 80

<210> 192

<211> 31

<212> PRT

<213> Homo sapiens

<400> 192

Met Ile Thr Leu Cys Ile Phe Leu Leu Phe Lys Val Phe Val Gly Ile



Table 1. Demographic characteristics of the study population	
Age (years)	50.0 ± 10.0
Gender (male/female)	100/100
Marital status (married/divorced/separated/widowed)	100/100/100/100
Education (years)	12.0 ± 2.0
Occupation (white/blue)	100/100
Income (USD/month)	1000.0 ± 200.0
Smoking status (smoker/nonsmoker)	100/100
Alcohol consumption (yes/no)	100/100
Family size (number of children)	2.0 ± 1.0
Health insurance (yes/no)	100/100
Comorbidities (hypertension/diabetes/asthma)	100/100/100
Medication use (yes/no)	100/100
Stress level (low/moderate/high)	100/100/100
Life satisfaction (satisfied/dissatisfied)	100/100
Quality of life (SF-36 score)	50.0 ± 10.0
Health-related quality of life (HRQL)	50.0 ± 10.0
Physical functioning (PF)	50.0 ± 10.0
Role limitations due to physical problems (RP)	50.0 ± 10.0
Bodily pain (BP)	50.0 ± 10.0
General health (GH)	50.0 ± 10.0
Energy/fatigue (FE)	50.0 ± 10.0
Social functioning (SF)	50.0 ± 10.0
Emotional role limitations (RE)	50.0 ± 10.0
Mental health (MH)	50.0 ± 10.0
Health status (HS)	50.0 ± 10.0
Overall quality of life (QoL)	50.0 ± 10.0

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<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
```



&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 195

Met	Ser	Phe	Ser	Leu	Ala	His	Val	Lys	Thr	Gly	Gln	Gly	Pro	Arg	Leu
1				5					10					15	

Thr	Glu	Ala	Leu	Gln	Tyr	Ile	Ala	Ser	Lys	Ile	Ala	Val	Gly	Val	Thr
			20					25					30		

Ser	Ser	Gln	Lys	Ser	Gly	Glu	Glu	Arg	Ala	Met	Xaa	Thr	Gln	Glu	Leu
		35					40					45			

Leu	Met	Asp	Gln	Ala	Trp	Asp	Ser	Val	Cys	His	Phe	His	Gln	His	Pro
	50					55					60				

Thr	His	Gln	Asn	Xaa	Val	Thr	Gly	Pro
65					70			

&lt;210&gt; 196

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 196

Met	Leu	Cys	Leu	Leu	Val	Leu	Thr	Gly	Leu	Xaa	Val	Leu	Ile	Val	Gly
1				5					10					15	

Ile	His	Ile	Leu	Glu	Leu	Leu	Ile	Asp	Glu	Ala	Ala	Met	Pro	Arg	Gly
			20					25					30		

Met	Gln	Gly	Thr	Ser	Leu	Gly	Gln	Val	Ser	Phe	Ser	Lys	Leu	Gly	Ser
		35					40					45			

Phe	Ala	Ser	Ser	Ala	Ser	Leu	Ser	Ala	Arg
	50					55			

&lt;210&gt; 197

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 197

Met	Leu	Gln	Thr	Leu	Ile	Leu	Ile	Phe	Leu	Leu	Leu	Leu	Pro	Cys	Tyr
1				5					10					15	

Leu	Glu	Leu	Leu	Cys	Phe	Ser	Leu	Ile	Ser	Ser	Ser	Ala	Lys	Thr
		20						25					30	

TOTAL 34660



```

<400> 198
Met  Pro  Phe  Ser  Ser  Ser  Val  Lys  Cys  Leu  Phe  Gly  Val  Leu  Leu  Arg
  1              5              10              15

Phe  Cys  Phe  Val  Val  Phe  Ser  Val  Val  Val  Phe  Thr  Phe  Phe  Leu  Ser
          20              25              30

Ile  Pro  Lys  Arg  Thr  Leu  Gly  Tyr
          35              40

```

```

<400> 199
Met Gly Gly Lys Gly Ile Asn Tyr Thr Met Pro His Ile Cys Leu Leu
  1             5             10             15

Leu Leu Asn Ala Leu Val Val Ser Cys Leu Leu Leu Glu Ala Ile Leu
      20             25             30

Leu Gln His Leu Val Leu Cys Asn Glu Leu Pro
      35             40

```

```

<400> 200
Met Phe Met Leu Cys Asn Leu Leu Leu Pro Leu Leu Glu Phe Ile Phe
  1             5             10             15

Gly Ser Thr Tyr Leu Ser Thr Asp Leu Tyr Leu His Thr Cys Met Lys
          20             25             30

Asn Val Phe Leu His Ile His Ser Phe
          35             40

```

```

<400> 201
Met Leu Val Leu Met Thr Thr Cys Ile Leu Ala Ala Val Cys Val His
  1                      5              10              15

Thr Ala Gln Cys Ala Pro Asp Ser Arg Met Asp Asn Asp Cys Pro Ser

```



Table 1. Demographic characteristics of the study population	
Age (years)	60.0 ± 10.0
Gender	
Male	50 (50.0%)
Female	50 (50.0%)
Education (years)	12.0 ± 2.0
Marital status	
Married	40 (80.0%)
Single	10 (20.0%)
Occupation	
Retired	30 (60.0%)
Unemployed	20 (40.0%)
Income (USD/month)	1000.0 ± 500.0
Health status	
Good	40 (80.0%)
Poor	10 (20.0%)
Smoking status	
Smoker	10 (20.0%)
Non-smoker	40 (80.0%)
Alcohol consumption	
Drinker	10 (20.0%)
Non-drinker	40 (80.0%)
Comorbidities	
Hypertension	20 (40.0%)
Diabetes	10 (20.0%)
Cholesterol	15 (30.0%)
Arthritis	10 (20.0%)
Depression	5 (10.0%)
Other	5 (10.0%)

Thr Phe Asn His Asp  
50

```
<210> 202
<211> 40
<212> PRT
<213> Homo sapiens
```

```
<400> 202
Met Gly Pro Ser Gln Arg Glu Val Thr Val Gln Trp His Arg Ala Leu
  1             5             10             15
Phe Leu Leu Pro Leu Leu Leu Leu Ser Thr Arg Thr Glu Thr Lys Asn
      20             25             30
Phe Gly Phe Lys Trp Leu Lys Asp
    35             40
```

```
<210> 203
<211> 75
<212> PRT
<213> Homo sapiens
```

```

<400> 203
Met Phe Thr Thr Arg Phe Pro Lys Leu Leu Ile Phe Pro Lys Ile Val
  1             5             10             15
Thr Glu Asn Cys Cys Leu Leu Phe Cys Ser Phe Trp Gly Trp Trp Cys
          20             25             30
Trp Leu Gly His Ala Cys Glu Val Met Cys Val Ser Asp Leu Thr Asp
          35             40             45
Ser Leu Phe Ser Leu Leu Ile Glu Arg Ala Leu Phe Thr Leu Phe Ile
  50             55             60
Cys Phe Asp Thr Ser Ala Phe Ser Val Leu Ser
  65             70             75

```

```
<210> 204
<211> 104
<212> PRT
<213> Homo sapiens
```

```

<400> 204
Met Leu Cys Pro Asn His Gly Leu Phe Pro Asp Pro Gly Phe Gln Cys
 1             5             10             15

Pro Pro Leu Phe Gln Glu Val Gln Arg Asp Ala Pro His Arg Lys Gly
      20             25             30

```



Ser Ala Thr Val Leu Pro Arg Cys Pro Pro Trp Val Pro Ser Leu Lys  
                   35                  40                  45

His Arg Thr Ser His Thr Ser Ser Pro Ala Val Pro Leu Ile Leu Val  
           50                  55                  60

Pro Arg Leu Pro Ser Leu Gln Leu His Ser Phe Ile Gln His Ser Leu  
       65                  70                  75                  80

Gly Asp Phe Tyr Ile Asp Thr Pro Arg Thr Glu Ala Trp Gly Lys Asp  
                   85                  90                  95

Asp Gln Glu His Val Pro Ser Arg  
                   100

<210> 205  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 205  
 Met Leu Pro Leu Tyr Phe Leu Gln Pro Tyr Leu Ser Leu Val Ile Phe  
       1                  5                  10                  15

Ile Met Leu Arg Asp Asn Trp His Leu Leu Ala Leu Thr Cys Ser Tyr  
                   20                  25                  30

Ser Ile Ile Trp Arg Leu Ser Pro Asp Thr Asn Pro Ser Pro Ile Ala  
           35                  40                  45

Pro Ser Arg His Xaa Gln Leu Xaa Val Val Ala Ile Ala Pro Leu Glu  
       50                  55                  60

Pro Ser Pro His Ser His Met Gln Ser Ile Pro Lys Asn Leu Ala Gln  
       65                  70                  75                  80

Phe Ser Ser Ser Gln Met Phe Ser Leu Thr Leu Gln Leu Val Tyr Ile  
                   85                  90                  95

Ser Ser

<210> 206  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

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<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 206  
 Met Glu Asn Asp Trp Gly Phe Gln Thr Thr Phe Phe Ser Leu Gly Leu  
   1                  5                  10                  15  
 Tyr Leu Phe Thr Ile Trp Trp Ser Thr Val Gly Leu Pro Trp Thr Ser  
                   20                  25                  30  
 Ser Thr Gln Arg Glu Leu Asp Met Lys Leu Glu Ala Ala Ala Leu Glu  
           35                  40                  45  
 Gly Lys Xaa Gly Ser Leu Gly Gln Pro Arg Pro Trp Gln Glu Glu Ser  
       50                  55                  60  
 Leu Pro Leu Gly Val Leu Asp Gly His Val  
   65                  70  
  
 <210> 207  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 207  
 Met Phe His Val Phe Val Leu Leu Leu Thr Phe Ile Ala Leu Ser Pro  
   1                  5                  10                  15  
 Ser Gly Ile Arg Leu Leu Phe Gly Phe Ile Gln Lys Gly Leu Asn Leu  
           20                  25                  30  
 Asn Ser Phe Met Phe Arg Leu Glu Leu Leu His Phe  
       35                  40  
  
 <210> 208  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 208  
 Met Phe Glu Asp Thr Leu Arg Thr Leu Tyr Ile Leu Leu Phe Tyr Leu  
   1                  5                  10                  15  
 Arg Tyr Ile Cys Leu Leu Ser Pro His Ile Ala Leu Met Thr Leu Ile  
           20                  25                  30  
 Leu Ile Asp Gly Phe Leu Gln Cys Tyr Tyr Cys Ala Leu His Val Pro  
       35                  40                  45  
 Cys Ile Ile Ala Phe Leu  
   50



<210> 209  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 209  
 Met Lys Ala Leu Val Gly Asn Ser Pro Pro Val Gly Asp Ser Gly Thr  
   1                  5                  10                  15  
  
 Gln Pro Pro Ser Ala Leu Arg Leu Cys Leu Leu Lys Val Leu Arg Val  
                   20                  25                  30  
  
 Leu Ser Met Tyr Leu Ala Asn Gly Glu Arg Val Trp Arg Thr His Lys  
           35                  40                  45  
  
 Arg Val Xaa His His Val Leu Arg Gly  
   50                  55

<210> 210  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 210  
 Met Pro Glu Asn Leu Val Leu Ile Leu Ala Leu Leu Leu Ser Val Cys  
   1                  5                  10                  15  
  
 Gly Leu Lys Gln Val Ile Phe Leu Ser Ala Ser Ile Tyr Ser Lys Met  
           20                  25                  30  
  
 Cys Thr Leu Ile Ala Thr Lys Lys Val Val Ala Lys Thr Arg Asn Asp  
       35                  40                  45  
  
 Ala Tyr Trp Tyr Leu Ile Ser Leu Lys His Ile Val Gly Phe  
   50                  55                  60

<210> 211  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 211  
 Met Arg Glu Cys Tyr Phe Leu Gly Asn Phe Leu Leu Val Phe Leu Ile  
   1                  5                  10                  15  
  
 Leu Ala Ser Ser Phe Ile Tyr Val Leu Val Thr Gln Val Leu Gly Gly  
       20                  25                  30  
  
 Pro Ala Thr Leu Leu Ala Phe  
       35

TOP SECRET



```
<210> 212
<211> 47
<212> PRT
<213> Homo sapiens
```

<400> 212  
Met Gln Ser Gly Arg Ser Trp Ala Leu Lys Met Val Leu Leu Cys Asn  
1 5 10 15  
Ser Cys Leu Gly Leu Gly Val Gly Ser Val Gly Pro Ser Met Ser Ser  
20 25 30  
Leu Phe Gly Ala Val Leu Ser Glu Thr Pro Gly Ser Ser Val Tyr  
35 40 45

```
<210> 213
<211> 23
<212> PRT
<213> Homo sapiens
```

```

<400> 213
Met Ser Glu Leu Ser Ala Phe Met Phe Ser Thr Ile Ile Phe Leu Met
  1                      5                      10                      15
Ala Gln Pro Thr Ser Cys Phe
                20

```

```
<210> 214
<211> 46
<212> PRT
<213> Homo sapiens
```

```

<400> 214
Met Met Phe Cys Phe Leu Ile Trp Val Val Val Thr Phe Thr Tyr Ser
  1                      5                      10                      15

Leu Asn Cys Thr Phe Val Leu His Lys Phe Ile Ile Phe Pro Asn Phe
      20                      25                      30

Lys Lys Val Lys Arg Arg Arg Lys Lys Leu Val Met Lys Val
    35                      40                      45

```

```
<210> 215
<211> 38
<212> PRT
<213> Homo sapiens
```

<400> 215  
Met Ile Leu Val Ser Lys Leu Phe Phe Gly Phe Ser Leu Met Phe Leu  
1 5 10 15  
Ile Phe Phe Pro Leu Ala Thr Met Thr Val His Val Leu Ile Asn Ile  
20 25 30



Gly Arg Ser Arg Tyr Lys  
35

<210> 216  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 216  
Met Tyr Ile Leu Ser Leu Ser Cys Ser Ile Phe Phe Ser Phe Phe Phe  
1 5 10 15

Phe Leu Phe Pro Phe Phe Arg Gly Leu Arg Lys Gly Gln Ala Lys  
20 25 30

<210> 217  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 217  
Met Ser Asn Leu Met Val Ala Met Ile Ala Val Ile Thr Ile Ala Val  
1 5 10 15

Ser Ile Pro Ser Thr Arg Ala Asp Thr Glu Ile Ser Tyr Thr Tyr Trp  
20 25 30

Ala Tyr Leu Ser Ile Leu Ala Gly Asn Asn Ala Trp Ile  
35 40 45

<210> 218  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 218  
Met Ile Met Glu Glu Ile Phe Leu Asn Leu Ile Lys Asn Ile Tyr Lys  
1 5 10 15

Ser Pro Tyr Ser Gln Cys Asn Thr  
20

<210> 219  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 219  
Met Val Ile Phe Ile Ile Leu Leu Thr Cys Phe Gly Phe Ser Asn Gly  
1 5 10 15

Ser Phe Ser Phe Ser Leu  
20

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<210> 220  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 220  
 Met Ser Pro Gly Arg Val Ser Val Val Ser Leu Gln Gly Ser Gln Leu  
           1                  5                  10                  15  
 Cys Leu Leu Val Ser Ile Ala Ile Met Gly Leu Leu Leu Phe  
                   20                  25                  30

<210> 221  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 221  
 Met Ser Gly Leu Glu Ser Ala Arg Val Leu Leu Cys Ala Leu Gly Ser  
           1                  5                  10                  15  
 Phe Leu Leu Asn Ser Leu Leu Ser Thr Phe Arg Leu Asn Ser Ser Ala  
                   20                  25                  30

Pro Ser

<210> 222  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 222  
 Met His Ser Ile Ile Val Lys Glu Leu Ile Val Thr Phe Phe Leu Gly  
           1                  5                  10                  15  
 Ile Thr Val Leu Leu Leu Leu Met Gln Arg Ser Leu  
                   20                  25

<210> 223  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 223  
 Met Lys Ser Val Ile Phe Ile Gln Ser Val Ile Leu Phe Phe Leu Pro  
           1                  5                  10                  15  
 Met Ser Gly Asp His Gln Gly Ile Ser Gly Leu Asp Glu Leu Pro Gln  
                   20                  25                  30

Ala



<210> 224  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 224  
 Met Val Val Asp Gln Lys Glu Asp Leu Ile Thr Gly Leu Gly Ile Lys  
   1                  5                  10                  15  
 Met Val Arg Lys Trp Leu Gln Gly Ser Gln Ala Trp Pro Leu Glu Arg  
                   20                  25                  30  
 Glu Glu Arg Glu Gly Leu Gly Ser Leu Cys Thr Cys Cys Pro Trp Gly  
                   35                  40                  45  
 Leu Val Arg Phe Xaa Glu Ser Leu Thr His Phe Thr Gly Glu Ala Ile  
                   50                  55                  60  
 Glu Pro Leu Arg Ala Glu Val Thr Asp Pro Lys His Pro Cys Ser Cys  
   65                  70                  75                  80  
 Val Ala Glu Pro Glu Val Lys Ser Arg Ser Leu  
                   85                  90

<210> 225  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 225  
 Met Leu Ser Leu Asp Phe Pro Leu Ile Leu Leu Gly Leu Asn Leu His  
   1                  5                  10                  15  
 Ile Ala Leu Leu Ser Leu Leu Val Pro Arg Leu Ser  
                   20                  25

<210> 226  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 226  
 Met Val Val Val Ser Thr Asn Gly Phe Leu Leu Leu Leu Leu Phe Leu  
   1                  5                  10                  15  
 Asn Arg Lys Ser Gly Leu Cys Ser Tyr Arg Lys Ala Val His Arg Leu  
                   20                  25                  30

TOP SECRET



Ser Ser Cys Pro Ser Arg His Gln Ala Gly Pro Arg Ile Lys Cys Asp  
           35                          40                          45

Phe Lys Trp Gly Lys Leu Cys Tyr Ser Cys Ala  
       50                          55

<210> 227

<211> 67

<212> PRT

<213> Homo sapiens

<400> 227

Met Pro Val Tyr Asp Phe Asn Trp Trp Tyr Ser Leu Tyr Phe Ile Ile  
       1                          5                          10                          15

Tyr Ile Ile Ile Asn Thr Tyr Ile Phe Lys Ser Val Phe Leu Ala Met  
                           20                          25                          30

Val Tyr Ser Asn Tyr Arg Lys His Phe His Ile Leu Cys Val Cys Val  
                           35                          40                          45

Cys Val Phe Cys Ser Asp Glu Gln Asn Leu Leu Phe Thr Gln Phe Tyr  
       50                          55                          60

Tyr Leu Ser  
       65

<210> 228

<211> 31

<212> PRT

<213> Homo sapiens

<400> 228

Met Pro Pro Pro Glu Cys Leu Ser Asp Cys Ser Lys Val Ala Leu Val  
       1                          5                          10                          15

Met Val Leu Phe Leu Phe Leu His Gln Ser Ser Cys Trp Ala Ala  
                           20                          25                          30

<210> 229

<211> 35

<212> PRT

<213> Homo sapiens

<400> 229

Met Ala Ser Ser Val Thr Val Lys Glu Val Cys Val Leu Phe Asn Leu  
       1                          5                          10                          15

Leu Ile Ile Ile Thr Ala Met Val Tyr His Ser Phe Thr Lys Tyr Gln  
                           20                          25                          30

Thr Leu Phe  
       35

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<213> Homo sapiens

<400> 233

Met Phe Phe Val Leu Leu Cys Phe Trp Leu Phe Pro Phe Ser Lys Asn  
1 5 10 15

Ser Pro Leu Trp Gly Met Leu Arg Ser Ser Phe Phe Ile Ser Ile Asn  
20 25 30

Leu

<210> 234

<211> 25

<212> PRT

<213> Homo sapiens

<400> 234

Met Ser Leu Ile Leu Leu Leu Ser Val Thr Leu Leu His Leu Ser Phe  
1 5 10 15

Ser Val Gly Phe Phe Leu Phe Arg Leu  
20 25

<210> 235

<211> 58

<212> PRT

<213> Homo sapiens

<400> 235

Met Ser Ser Phe Leu Arg Val Ile Phe Ile Pro Asn Ile Lys Val Ile  
1 5 10 15

Phe Leu Pro Pro Gly Thr Thr Ser Leu Ile His Thr Met Asp Gln Gly  
20 25 30

Val Ile Ala Ala Phe Lys Phe Tyr Tyr Leu Arg Arg Glu Asp Phe Cys  
35 40 45

Pro Val Pro Tyr Cys Ser Gly Gly Arg His  
50 55

<210> 236

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

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<400> 236

Lys Leu Tyr Pro Pro Ser Leu Gln Ala Pro Arg Gly Glu Thr Gln Leu  
20 25 30

Met Leu Phe Asn Gln Lys Ser Val Ser Trp Gly Ser Gln Leu Pro Gln  
50 55 60

<210> 237

<211> 42

<212> PRT

<213> Homo sapiens

<400> 237

Met His Ala Leu Ser Tyr Thr His Leu Ser Leu Leu Ser Leu Phe Leu  
1 5 10 15

Phe Leu Pro Pro Ser Phe Leu Tyr Tyr Asn Leu Val Ile Leu Phe Phe  
20 25 30

Glu Ala Phe Gln Asn Ile Ser His Leu Ser  
35 40

<210> 238

<211> 40

<212> PRT

<213> Homo sapiens

<400> 238

Met Trp Val Gln Leu Ile Phe Phe Phe Val Gln Tyr Gly Asp Ser Leu  
1 5 10 15

Thr Ser Ala Phe Phe Pro Phe Ser Ser Asn Phe Ser Leu Gln Asn Ser  
20 25 30

Gly Phe Ser Met His Lys Leu Lys  
35 40

<210> 239

<211> 38

<212> PRT

<213> Homo sapiens

<400> 239

Met Thr Ser Leu Pro Ile Leu Ala Phe Gly Ala Val Tyr Trp Pro Asp



1                    5                    10                    15  
Leu Ala Ser His Ser Phe Ser Pro Ser Arg Ser Leu Ala Gln Thr Pro  
                    20                    25                    30

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<210> 240
<211> 47
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 240
Met Thr Pro Trp Leu Leu Ile Leu Val Ser Xaa Gly Phe Leu Lys Ser
  1             5             10             15
```

Ile Ser Asp Pro Gln Phe Gln Glu Leu Ser Ile Asn Ile Ala Ser Cys  
20 25 30

His Pro Gly Thr Val Met Pro Tyr Ser Gly Thr Ser His Leu Lys  
35 40 45

```
<210> 241
<211> 36
<212> PRT
<213> Homo sapiens
```

<400> 241  
Met Thr Gly Thr Pro Ala Trp Ala His Leu Leu Leu Leu Leu Leu  
1 5 10 15

Gly Ser Ala Pro Gln Thr Arg Leu Trp Pro Pro Ser Gln Cys Pro Val  
20 25 30

Thr Ser Pro Glu  
35

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<210> 242
<211> 54
<212> PRT
<213> Homo sapiens
```

```
<400> 242
Met Val Leu Gln Asn Thr Asn Thr Leu Leu Ile Val Ser Ala Phe Leu
   1                   5             10           15
```

Leu Ser Met Leu Phe Phe Lys Phe Ser Ile Ala Ile Phe Leu Val Thr  
20 25 30

[illegible]



Asn Leu Ser Phe Glu Arg Ser Asn Leu Leu Leu Gly Pro Ser Ser Asp  
                   35                                  40                                  45

Leu Phe Leu Asn Phe Lys  
                   50

<210> 243  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 243  
 Met Tyr Glu Val Asp Lys Lys Ile Tyr Ser Asn Phe Ile Gln Ile Leu  
       1                                  5                                  10                                  15

Ile Val Ile Ile Phe Val Leu Tyr Leu Ile Ile Asn Gln Asn Thr Phe  
                                   20                                  25                                  30

Ala Phe Leu Ser  
                   35

<210> 244  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 244  
 Met Cys Ile Leu Pro Leu Met Leu Thr Tyr Pro Ile Leu Pro Lys Val  
       1                                  5                                  10                                  15

Val Gly Asn Asn Ile Leu Leu Gly Asp Ser Gly Leu Thr Ser Leu Val  
                                   20                                  25                                  30

Ile Pro Leu Ser Val Val Phe Asn Leu Lys  
                   35                                  40

<210> 245  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 245  
 Met Asn Phe Leu Leu Leu Ile Phe Pro Tyr Phe Ser Ser Leu Leu Gly  
       1                                  5                                  10                                  15

Glu Val Glu Val Val Lys Cys  
                   20

<210> 246  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

TOP SECRET







&lt;400&gt; 249

Met Leu Thr Trp Leu Asp Leu Asp Leu Leu Phe Cys Phe Leu Phe Leu  
 1 5 10 15

Phe Leu Phe Ile Leu Phe Tyr Phe Leu Gln Leu Asn Glu Phe Trp Gly  
 20 25 30

Gly Asn Pro Phe  
 35

&lt;210&gt; 250

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 250

Met Arg Lys Glu Glu Gly Ile Ala His Leu Ser Ile Ala Phe Phe Val  
 1 5 10 15

Gln Val Leu Cys Leu Tyr Gln Leu Leu Pro Val Ile Leu Pro Gln Phe  
 20 25 30

Asn Leu Gly Ser Gly Lys Asn Met Asn Arg  
 35 40

&lt;210&gt; 251

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 251

Met Phe Val Leu Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly  
 1 5 10 15

Gln Pro Arg Gly Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr  
 20 25 30

Ile Cys Ser Ile Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala  
 35 40 45

Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp  
 50 55 60

Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly  
 65 70 75 80

Leu Arg Gly Lys Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp  
 85 90 95

Gln Gly Glu Thr Gly Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys  
 100 105 110

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 T00T07-04002660



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<210> 252
<211> 142
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 252  
Met Cys Ala Phe Pro Trp Leu Leu Leu Leu Leu Leu Gln Glu Gly  
1 5 10 15

Val Leu Gln Glu Ser Ile Ser Leu Pro Leu Glu Ile Pro Pro Asp Glu  
35 40 45

Glu Val Glu Asn Ile Ile Trp Ser Ser His Lys Ser Leu Ala Thr Val  
50 55 60

Val	Pro	Gly	Lys	Glu	Gly	His	Pro	Ala	Thr	Ile	Met	Val	Thr	Asn	Pro
65					70					75					80

His Tyr Gln Gly Gln Val Ser Phe Leu Asp Pro Xaa Tyr Ser Leu His  
85 90 95

Ile Ser Asn Leu Ser Trp Glu Asp Ser Gly Leu Tyr Gln Ala Gln Val  
100 105 110

Asn Leu Arg Thr Ser Gln Ile Ser Thr Met Gln Gln Tyr Asn Leu Cys  
115 120 125

Val Tyr Arg Trp Leu Ser Glu Xaa Pro Xaa His Cys Glu Leu  
130 135 140

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<210> 253
<211> 222
<212> PRT
<213> Homo sapiens
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$\langle 220 \rangle$ 

&lt;221&gt; SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 253

Met His Phe Gln Arg Gln Lys Leu Met Ala Val Thr Glu Tyr Ile Pro  
1 5 10 15

Pro Lys Pro Ala Ile His Pro Ser Cys Leu Pro Ser Pro Pro Ser Pro  
20 25 30

Pro Gln Glu Glu Ile Gly Leu Ile Arg Leu Leu Arg Arg Glu Ile Ala  
35 40 45

Ala Val Phe Gln Asp Asn Arg Met Ile Ala Val Cys Gln Asn Val Ala  
50 55 60

Leu Ser Ala Glu Asp Lys Leu Leu Met Arg His Gln Leu Arg Lys His  
65 70 75 80

Lys Ile Leu Met Lys Xaa Phe Pro Asn Gln Val Leu Lys Pro Phe Leu  
85 90 95

Glu Asp Ser Lys Tyr Gln Asn Leu Leu Pro Leu Phe Val Gly His Asn  
100 105 110

Met Leu Leu Val Ser Glu Glu Pro Lys Val Lys Glu Met Val Arg Ile  
115 120 125

Leu Arg Thr Val Pro Phe Leu Pro Leu Leu Gly Gly Cys Ile Asp Asp  
130 135 140

Thr Ile Leu Ser Arg Gln Gly Phe Ile Asn Tyr Ser Lys Leu Pro Ser  
145 150 155 160

Leu Pro Leu Val Gln Gly Glu Leu Val Gly Gly Leu Thr Cys Leu Thr  
165 170 175

Ala Gln Thr His Ser Leu Leu Gln His Gln Pro Leu Gln Leu Thr Thr  
180 185 190

Leu Leu Asp Gln Tyr Ile Arg Glu Gln Arg Glu Lys Asp Ser Val Met  
195 200 205

Ser Ala Asn Gly Lys Pro Asp Pro Asp Thr Val Pro Asp Ser  
210 215 220

<210> 254

<211> 38

<212> PRT

<213> Homo sapiens

<400> 254

Met Met Asn Ile Leu Leu Leu Lys Tyr Ile Leu Glu Ile Leu Ile Leu

1 5 10 15

Ser Glu Asn Leu Asn Leu Phe Asn Ile Thr Tyr Gly Lys Tyr Asn Leu  
20 25 30







[illegible]

<210> 258

<211> 50

<212> PRT

<213> Homo sapiens

<400> 258

Met Ser Ile Thr Ser Asn Thr Tyr Phe Phe Leu Leu Gly Ala Phe Lys  
1 5 10 15

Ile Leu Ser Ser Ser Tyr Trp Lys Ile His Thr Lys Leu Leu Leu Thr  
20 25 30

Ile Val Pro Leu Gln Cys Cys Gly Met Pro Gln Leu Ile Pro Pro Leu  
35 40 45

Gln Leu  
50

<210> 259

<211> 46

&lt;212&gt; PRT

<213> Homo sapiens

<400> 259

Met Tyr Ile Phe His Phe Val Phe Leu Ile Gly Tyr Ala Met Cys Gly  
1 5 10 15

Ile Gln Val Thr Asn Val Thr Leu Ala Ser Gly Pro Ser Asn Leu His  
20 25 30



<400> 262  
Met Ala Tyr Ala Phe His Arg Thr Ser Thr







Leu Ser His Cys Leu Leu Thr Tyr Asn Ser Tyr Thr Arg Thr Pro Phe  
 35 40 45

Leu Leu Pro Ser Ser Glu Ser Tyr Leu Val Phe Glu Ile  
 50 55 60

<210> 267

<211> 209

<212> PRT

<213> Homo sapiens

<400> 267

Met Cys Pro Leu Trp Arg Leu Leu Ile Phe Leu Gly Leu Leu Ala Leu  
 1 5 10 15

Pro Leu Ala Pro His Lys Gln Pro Trp Pro Gly Leu Ala Gln Ala His  
 20 25 30

Arg Asp Asn Lys Ser Thr Leu Ala Arg Ile Ile Ala Gln Gly Leu Ile  
 35 40 45

Lys His Asn Ala Glu Ser Arg Ile Gln Asn Ile His Phe Gly Asp Arg  
 50 55 60

Leu Asn Ala Ser Ala Gln Val Ala Pro Gly Leu Val Gly Trp Leu Ile  
 65 70 75 80

Ser Gly Arg Lys His Gln Gln Gln Gln Glu Ser Ser Ile Asn Ile Thr  
 85 90 95

Asn Ile Gln Leu Asp Cys Gly Gly Ile Gln Ile Ser Phe His Lys Glu  
 100 105 110

Trp Phe Ser Ala Asn Ile Ser Leu Glu Phe Asp Leu Glu Leu Arg Pro  
 115 120 125

Ser Phe Asp Asn Asn Ile Ile Lys Met Cys Ala His Met Ser Ile Val  
 130 135 140

Val Glu Phe Trp Leu Glu Lys Asp Glu Phe Gly Arg Arg Asp Leu Val  
 145 150 155 160

Ile Gly Lys Cys Asp Ala Glu Pro Ser Ser Val His Val Ala Ile Leu  
 165 170 175

Thr Glu Ala Ile Pro Pro Lys Met Asn Gln Phe Leu Tyr Asn Leu Lys  
 180 185 190

Glu Asn Leu Gln Lys Val Leu Pro His Met Val Glu Ser Gln Pro Leu  
 195 200 205

Ala

<210> 268

<211> 74

<212> PRT

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<213> Homo sapiens

<400> 268

Met Gly His Leu Phe Val Val Cys Leu Leu Ser Ser Trp Trp Thr Phe  
1 5 10 15

Arg Pro Phe Ala Leu Ala Val Thr Val Asn His Val Ala Val Asn Ile  
20 25 30

Val Cys Val Ser Ala Trp Thr Cys Val Ser Cys Ser Leu Gly Arg Ser  
35 40 45

Cys Gly Leu Glu Gly Ser Phe Leu Phe Pro Leu Glu Thr Leu Trp Phe  
50 55 60

Pro His Met Val Val Leu Cys Leu Thr Phe  
65 70

<210> 269

<211> 34

<212> PRT

<213> Homo sapiens

<400> 269

Met Gly Trp Gly Lys Glu Val Val Ser Leu Ile Val Leu Leu Val Asn  
1 5 10 15

Leu Phe Leu Cys Pro Trp Ala Leu Gly Leu Cys Leu Leu Ser Val Ser  
20 25 30

Ser Leu

<210> 270

<211> 58

<212> PRT

<213> Homo sapiens

<400> 270

Met Glu Pro Trp Ser Trp Phe Phe Phe Phe Phe Phe Phe Phe Pro Gln  
1 5 10 15

Arg Thr Cys Gly Cys Ala Leu Cys Val Leu Phe Leu Phe Ser Ile Trp  
20 25 30

Gly Pro His Gly Lys Glu Leu Leu Asn Ser Phe Leu Tyr Glu Leu Pro  
35 40 45

Leu Cys Ser Tyr Lys Gly Pro Phe Leu Ser  
50 55

<210> 271

<211> 96

<212> PRT

<213> Homo sapiens

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<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (83)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 271  
 Met Cys Phe Ile Leu Val Val Cys Phe Ala Ser Leu Ile Thr Glu Cys  
   1                  5                  10                  15  
 Pro Cys His Cys Lys Cys Cys Arg Asp Val Gly Arg Gly Xaa Thr Val  
           20                  25                  30  
 Leu Tyr Xaa Cys Ser Met Val Gln Asn Lys Leu Leu Thr Gln Val Ser  
       35                  40                  45  
 Leu Val Arg Asn Leu Trp Ala Met Glu Val Arg His Pro Ser Cys Xaa  
       50                  55                  60  
 Ser Ile Gly Lys Lys Cys Phe Gln Ile Leu Trp Lys Gly Gly His Gly  
   65                  70                  75                  80  
 Ala Gly Xaa Trp Arg Val Ala Phe Glu Gln Ser Asp Pro Ile Ser Val  
           85                  90                  95

<210> 272  
 <211> 405  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (273)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 272  
 Met Leu Leu Leu Trp Val Ser Val Val Ala Ala Leu Ala Val  
   1                  5                  10                  15  
 Leu Ala Pro Gly Ala Gly Glu Gln Arg Arg Arg Ala Ala Lys Ala Pro  
       20                  25                  30

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Asn	Val	Val	Leu	Val	Val	Ser	Asp	Ser	Tyr	Asp	Gly	Arg	Leu	Thr	Phe
35						40				45					
His	Pro	Gly	Ser	Gln	Val	Val	Lys	Leu	Pro	Phe	Ile	Asn	Phe	Met	Lys
50						55				60					
Thr	Arg	Gly	Thr	Ser	Phe	Leu	Asn	Ala	Tyr	Thr	Asn	Ser	Pro	Ile	Cys
65				70						75				80	
Cys	Pro	Ser	Arg	Ala	Ala	Met	Trp	Ser	Gly	Leu	Phe	Thr	His	Leu	Thr
				85				90						95	
Glu	Ser	Trp	Asn	Asn	Phe	Lys	Gly	Leu	Asp	Pro	Asn	Tyr	Thr	Thr	Trp
		100						105				110			
Met	Asp	Val	Met	Glu	Arg	His	Gly	Tyr	Arg	Thr	Gln	Lys	Phe	Gly	Lys
115						120						125			
Leu	Asp	Tyr	Thr	Ser	Gly	His	His	Ser	Ile	Ser	Asn	Arg	Val	Glu	Ala
130						135				140					
Trp	Thr	Arg	Asp	Val	Ala	Phe	Leu	Leu	Arg	Gln	Glu	Gly	Arg	Pro	Met
145				150						155				160	
Val	Asn	Leu	Ile	Arg	Asn	Arg	Thr	Lys	Val	Arg	Val	Met	Glu	Arg	Asp
				165				170						175	
Trp	Gln	Asn	Thr	Asp	Lys	Ala	Val	Asn	Trp	Leu	Arg	Lys	Glu	Ala	Ile
		180						185				190			
Asn	Tyr	Thr	Glu	Pro	Phe	Val	Ile	Tyr	Leu	Gly	Leu	Asn	Leu	Pro	His
195						200						205			
Pro	Tyr	Pro	Ser	Pro	Ser	Ser	Gly	Glu	Asn	Phe	Gly	Ser	Ser	Thr	Phe
210						215				220					
His	Thr	Ser	Leu	Tyr	Trp	Leu	Glu	Lys	Val	Ser	His	Asp	Ala	Ile	Lys
225				230						235				240	
Ile	Pro	Lys	Trp	Ser	Pro	Leu	Ser	Glu	Met	His	Pro	Val	Asp	Tyr	Tyr
				245				250						255	
Ser	Ser	Tyr	Thr	Lys	Asn	Cys	Thr	Gly	Arg	Phe	Thr	Lys	Lys	Glu	Ile
		260						265				270			
Xaa	Asn	Ile	Arg	Ala	Phe	Tyr	Tyr	Ala	Met	Cys	Ala	Glu	Thr	Asp	Ala
275						280				285					
Met	Leu	Gly	Glu	Ile	Ile	Leu	Ala	Leu	His	Gln	Leu	Asp	Leu	Leu	Gln
290						295				300					
Lys	Thr	Ile	Val	Ile	Tyr	Ser	Ser	Asp	His	Gly	Glu	Leu	Ala	Met	Glu
305				310						315				320	
His	Arg	Gln	Phe	Tyr	Lys	Met	Ser	Met	Tyr	Glu	Ala	Ser	Ala	His	Val
				325				330						335	
Pro	Leu	Leu	Met	Met	Gly	Pro	Gly	Ile	Lys	Ala	Gly	Leu	Gln	Val	Ser
		340				345				350					



131

Asn Val Val Ser Leu Val Asp Ile Tyr Pro Thr Met Leu Asp Ile Ala  
355 360 365

Gly Ile Pro Leu Pro Gln Asn Leu Ser Gly Tyr Ser Ser Leu Pro Leu  
370 375 380

Ser Ser Glu Thr Phe Lys Asn Glu His Lys Val Lys Asn Leu His Pro  
385 390 395 400

Pro Trp Ile Thr Glu  
405

<210> 273

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 273

Met Phe Leu Thr Ile Ile Val Cys Gly Met Val Ala Ala Leu Ser Ala  
1 5 10 15

Ile Arg Ala Asn Cys His Gln Glu Pro Ser Val Cys Leu Gln Ala Ala  
20 25 30

Cys Pro Glu Ser Trp Ile Gly Phe Gln Arg Lys Cys Phe Tyr Phe Ser  
35 40 45

Asp Asp Thr Lys Asn Trp Thr Ser Ser Gln Arg Phe Cys Asp Ser Gln  
50 55 60

Asp Ala Asp Leu Ala Gln Val Glu Xaa Phe Gln Glu Leu Xaa Arg Lys  
65 70 75 80

<210> 274

<211> 14

<212> PRT

<213> Homo sapiens

<400> 274

Ala Ser Ser Leu Leu Val Ser Leu Gln Cys Leu Leu Gln Leu  
1 5 10



<210> 275  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 275  
 Met Leu Pro Ile His Leu Gln Trp Ala Cys Ala Phe Arg Ser Phe Leu  
           1                  5                  10                  15  
 Leu Gly Ile Asp Ser Ser Met Phe Val Leu Phe Gln His Pro Arg Leu  
                   20                  25                  30  
 Lys Asp Thr Lys Ser Ser Arg Val Ile Glu Pro Thr Leu Thr Asn  
                   35                  40                  45

<210> 276  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 276  
 Met Ile Val Ile Thr Ser Ile Leu Ser Ser Leu Ala Ser Leu Leu Leu  
           1                  5                  10                  15  
 Leu Ala Phe Leu Ala Ala Ser Thr Ala Arg Leu Ser Pro Gln Ser Leu  
                   20                  25                  30  
 Pro Glu Thr  
                   35

<210> 277  
 <211> 281  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (199)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (227)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (276)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 277  
 Met Gly Phe Pro Gln Arg Gln Pro Gly Leu Ser Gly Leu Leu Leu Leu



Variable	Mean	SD	Min	Max
Age	34.5	10.2	21	55
Gender	0.5	0.5	0	1
Marital status	0.6	0.5	0	1
Education	12.5	1.5	9	16
Income	1500	500	500	3000
Health status	0.8	0.2	0	1
Smoking status	0.3	0.5	0	1
Alcohol consumption	0.2	0.4	0	1
Exercise frequency	0.5	0.5	0	1
Stress level	0.7	0.3	0	1
Sleep quality	0.6	0.4	0	1
Work satisfaction	0.5	0.5	0	1
Life satisfaction	0.6	0.4	0	1
Depression score	10.5	5.0	0	30
Anxiety score	12.0	6.0	0	30
Quality of life score	75.0	10.0	50	100

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<210> 278
<211> 45
<212> PRT
<213> Homo sapiens

<400> 278
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134

Met Pro Arg Arg Ser Arg Pro Cys Thr Leu Cys Leu Thr Leu Leu Arg  
1 5 10 15

Arg Ala Leu Ser Ser His Leu Pro Ser Ala Cys Gln Ser Pro Arg Arg  
20 25 30

Arg Val Gln Gly Gln Val Leu Lys Arg Leu Lys Pro Leu  
35 40 45

<210> 279

<211> 10

<212> PRT

<213> Homo sapiens

<400> 279

Met Ser Arg Arg Glu Asn Lys Phe Leu Leu  
1 5 10

<210> 280

<211> 39

<212> PRT

<213> Homo sapiens

<400> 280

Met Pro Leu Thr Leu Pro Ser Arg Leu Ala Gly Gly Asn Val Phe Leu  
1 5 10 15

Ile Ile Phe Thr Pro Gly Phe Cys Pro Gly Arg Val Asn Val Glu Ile  
20 25 30

Pro Gln Arg Met Leu Asp Glu  
35

<210> 281

<211> 67

<212> PRT

<213> Homo sapiens

<400> 281

Asp Trp Gly Phe Gln Thr Thr Phe Phe Ser Leu Gly Leu Tyr Leu Phe  
1 5 10 15

Thr Ile Trp Trp Ser Thr Val Gly Leu Pro Trp Thr Ser Ser Thr Gln  
20 25 30

Arg Glu Leu Asp Met Lys Leu Glu Ala Ala Ala Leu Glu Gly Lys Phe  
35 40 45

Arg Leu Thr Trp Thr Ala Gln Ala Met Ala Gly Arg Ile Pro Ser Ser  
50 55 60

Trp Gly Pro  
65

134







<210> 285  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 285  
 Met Ile His Leu Ser Arg Phe Tyr Leu Leu Leu Ile Met Leu Pro His  
           1                  5                  10                  15  
 Val Leu Phe Phe Thr Gly Asp Leu His Ser  
                   20                  25

<210> 286  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 286  
 Met Tyr Lys Cys Trp Tyr Arg  
           1                  5

<210> 287  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 287  
 Met Xaa Leu Asn Lys Thr Lys Ser Leu Thr Leu Leu Glu Leu Val Phe  
           1                  5                  10                  15  
 Leu Pro Gly Glu Thr Val Ser Lys Pro Ser Thr Lys  
                   20                  25

<210> 288  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 288  
 Met His Arg Leu Trp Ile Gly Pro Ala Phe Phe Leu Met Thr Ser Leu  
           1                  5                  10                  15  
 Ser Val Ser Gly Ala Val Ile Pro Arg Asn Gly Gly Pro Gly Gly Val  
                   20                  25                  30



Ser Thr Ile Arg Xaa Ile Pro Ser  
50 55

```
<400> 289
Met Cys Phe Ile Leu Val Val Cys Phe Ala Ser Leu Ile Thr Glu Cys
  1                   5              10             15
```

Pro Cys His Cys Lys Cys Cys Arg Asp Val Gly Arg Gly Pro Thr Val  
20 25 30

Leu Tyr Glu Met  
35

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<400> 290
Ser Ser Ser Cys Met Pro Arg Lys Leu Asp Trp Phe Ser Lys Lys Val
  1             5             10             15
```

Phe Leu Phe Phe  
20

<400> 291  
Leu Arg Arg Pro Ser Thr Pro Leu Arg Arg Pro Trp Leu His Leu Gln  
1 5 10 15

Leu Pro Arg Ile Ser Leu Gly Asp Gln Arg Leu Ala Gln Ser Ala Glu  
20 25 30

Met Tyr His Tyr Gln His Gln Arg Gln Gln Met Leu Ser Leu Glu Arg  
35 40 45

His Lys Glu Pro Pro Lys Glu Leu Asp Thr Ala Leu Arg Met Arg Arg  
50 55 60

Met Arg Thr Glu Thr Ser Arg Cys Thr Ser Ala Arg Ala Trp Pro Arg  
65 70 75 80

Pro Gly Lys Trp Arg Cys Ala Thr Ile Cys Ser Thr Thr Pro His Cys







<213> Homo sapiens

<400> 295

Leu Glu Arg His Lys Glu Pro Pro Lys Glu Leu  
1 5 10

<210> 296

<211> 12

<212> PRT

<213> Homo sapiens

<400> 296

Ala Lys Cys Pro Pro Gly Ala His Ala Cys Gly Pro  
1 5 10

<210> 297

<211> 9

<212> PRT

<213> Homo sapiens

<400> 297

Pro Val His Met Ser Pro Leu Glu Pro  
1 5

<210> 298

<211> 12

<212> PRT

<213> Homo sapiens

<400> 298

Trp Cys Arg Leu Gln Arg Glu Ile Arg Leu Thr Gln  
1 5 10

<210> 299

<211> 18

<212> PRT

<213> Homo sapiens

<400> 299

Ser Ser Asp Glu Glu Asn Glu Asp Gly Asp Phe Thr Val Tyr Glu Cys  
1 5 10 15

Pro Gly

<210> 300

<211> 10

<212> PRT

<213> Homo sapiens

<400> 300



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<210> 301
<211> 10
<212> PRT
<213> Homo sapiens
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<211> 10

<212> PRT

<213> Homo sapiens

Cys Pro Gly Ser Leu Asp Cys Ala Leu Lys  
1 5 10

Cys Pro Gly Ser Leu Asp Cys Ala Leu Lys  
1 5 10

<211> 22

<212> PRT

<213> Hom

Asn Glu Asp Gly Asp Phe Thr Val Tyr Glu Cys Pro Gly Met Ala Pro  
1 5 10 15

Asn Glu Asp Gly Asp Phe Thr Val Tyr Glu Cys Pro Gly Met Ala Pro  
1 5 10 15

<210> 303

&lt;211&gt; 159

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

 $\langle 222 \rangle$  (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

 $\langle 222 \rangle \quad (123)$ 

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 303

Arg Pro Thr Arg Pro Ser Ser Ser Cys Val Leu Pro Arg Cys Leu Arg  
1 5 10 15

Cys Ser Arg Arg Gly Ala Arg Ser Pro Arg Arg Ala Pro Gly Leu Ala  
20 25 30



Val	Pro	Cys	Cys	Pro	Gly	Gly	Gly	Ala	Glu	Gly	Trp	Arg	Arg	Arg	Cys	
35						40						45				
Leu	Arg	Pro	Pro	Arg	Gly	Thr	Cys	Gly	Cys	Cys	Gly	Cys	Cys	Ser	Pro	
50					55						60					
Ala	Ser	Ser	Ser	Ala	Pro	Pro	Cys	Val	Glu	Pro	Pro	Pro	Ala	Thr	Arg	
65					70						75			80		
Asn	Val	Ala	Ala	Cys	Pro	Gly	Ser	Leu	Asp	Cys	Ala	Leu	Lys	Lys	Arg	
				85					90			95				
Ala	Ser	Val	Leu	Leu	Val	His	Met	Pro	Val	Gly	Leu	Pro	Ser	Ala	Leu	
			100					105					110			
Pro	Xaa	Gly	Thr	Ala	Lys	Ala	Cys	Phe	Ala	Xaa	Met	Arg	Arg	Ala	Ser	
		115					120					125				
Xaa	Gly	Gly	Arg	Ala	Gln	Pro	Xaa	Leu	Glu	Met	Arg	Leu	Ile	Pro	Gly	
130					135						140					
Pro	Arg	Glu	Leu	Ala	Arg	Lys	Gly	Ile	Trp	Thr	Ser	Ile	Pro	Pro		
145					150						155					

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<210> 304
<211> 25
<212> PRT
<213> Homo sapiens
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<400> 304  
Arg Cys Leu Arg Cys Ser Arg Arg Gly Ala Arg Ser Pro Arg Arg Ala  
1 5 10 15

Pro Gly Leu Ala Val Pro Cys Cys Pro  
20 25

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<210> 305
<211> 34
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 305  
Gly Ser Leu Asp Cys Ala Leu Lys Lys Arg Ala Ser Val Leu Leu Val  
1 5 10 15

His Met Pro Val Gly Leu Pro Ser Ala Leu Pro Xaa Gly Thr Ala Lys  
20 25 30

Ala Cys



<210> 306  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 306  
 Asp Ser His Gln Ala Arg Ser Arg Arg Leu Glu Ala Leu Trp Ser Pro  
           1                  5                  10                  15  
 Ser Leu Gly Glu Val Ser Ser Ser Thr  
                   20                  25

<210> 307  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 307  
 Cys Arg Trp Arg Pro Glu Ser Ala Ala Pro Cys  
           1                  5                  10

<210> 308  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 308  
 Thr Arg Pro Gly Arg Gly Ala Gln Ala Pro Val Lys  
           1                  5                  10

<210> 309  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 309  
 Met Val Ser Trp Met Ile Ser Arg Ala Val Val Leu Val Phe Gly Met  
           1                  5                  10                  15  
 Leu Tyr Pro Ala Tyr  
                   20

<210> 310  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 310  
 Gly Met Leu Tyr Pro Ala Tyr Tyr Ser Tyr Lys Ala Val Lys Thr Lys  
           1                  5                  10                  15

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Asn

<210> 311  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 311  
 Glu Tyr Val Arg Trp Met Met Tyr Trp Ile Val Phe Ala Leu Tyr Thr  
           1                  5                  10                  15

Val

<210> 312  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 312  
 Tyr Pro Ala Tyr Tyr Ser Tyr Lys Ala Val Lys Thr Lys Asn Val Lys  
           1                  5                  10                  15

Glu

<210> 313  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 313  
 Val Ala Trp Phe Pro Leu Tyr Tyr Glu Leu Lys Ile Ala  
           1                  5                  10

<210> 314  
 <211> 186  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (181)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 314  
 Met Val Ser Trp Met Ile Ser Arg Ala Val Val Leu Val Phe Gly Met  
           1                  5                  10                  15

Leu Tyr Pro Ala Tyr Tyr Ser Tyr Lys Ala Val Lys Thr Lys Asn Val  
                   20                  25                  30

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&lt;400&gt; 317

Cys Asn Gly Pro Phe Lys His Phe Ser Phe Thr Val Ser Thr  
 1 5 10

&lt;210&gt; 318

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 318

Arg Ser Cys Lys Glu Ile Lys Asp  
 1 5

&lt;210&gt; 319

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 319

Gly Gly Gly Trp Thr Leu Val Ala Ser Val His Glu Asn  
 1 5 10

&lt;210&gt; 320

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 320

Ala Asp Tyr Pro Glu Gly Asp Gly Asn Trp Ala Asn Tyr Asn Thr Phe  
 1 5 10 15

Gly Ser Ala

&lt;210&gt; 321

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 321

Ala Thr Ser Asp Asp Tyr Lys Asn Pro Gly Tyr Tyr Asp Ile  
 1 5 10

&lt;210&gt; 322

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 322

Cys Ile Gly Gly Gly Gly Tyr Phe Pro Glu Ala

100101 00000000



146

1 5 10

<210> 323  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 323  
Glu Ile Thr Glu Ala Ala Val Leu Leu Phe Tyr  
1 5 10

<210> 324  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 324  
Asp Ser Asp Lys Ile Thr  
1 5

<210> 325  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 325  
Tyr Gln Thr Phe Cys Asp Met Thr  
1 5

<210> 326  
<211> 57  
<212> PRT  
<213> Homo sapiens

<400> 326  
Met Met Ala Thr Pro Ser Thr Arg Pro Pro Pro Pro Ala Ala Ser Thr  
1 5 10 15  
Thr Ser Ala Thr Ala Pro Ala Leu Pro Pro Arg Pro Pro Trp Pro Trp  
20 25 30  
Pro Pro Ser Ser Trp Pro Pro Ser Gly Val Ser Ser Lys Ala Pro Glu  
35 40 45  
Ala Asp Pro Leu Lys Asn Lys Ala Leu  
50 55

<210> 327  
<211> 76  
<212> PRT  
<213> Homo sapiens



&lt;400&gt; 327

Leu Leu Leu Thr Ser Pro Leu Pro Arg Cys Pro Pro Ala Cys Ser His  
 1 5 10 15

Asp Ala Pro Ala His Pro Asp Pro Gly Gly Pro His Gly Leu Thr Ser  
 20 25 30

Gly Pro Gly Leu Gly Leu Pro Arg Val Cys Leu Gln Arg Arg Gln Leu  
 35 40 45

Leu Gln Pro His Ala Leu Pro Gly Tyr Gly Cys Leu Leu His Asp His  
 50 55 60

Ala His Leu Leu His Pro His Gln Asp Glu Gly Gln  
 65 70 75

&lt;210&gt; 328

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 328

Trp Leu Leu Gln Ala Arg Val His His Leu Leu Leu Pro Val Arg Pro  
 1 5 10 15

Leu Gln Arg His Arg Pro Cys His Pro Gly His Pro Gly Pro Gly Pro  
 20 25 30

His Pro Pro Gly His Pro Leu Gly Ser Pro Leu Lys Pro Pro Arg Gln  
 35 40 45

Thr His Ser Arg Thr Lys Leu Ser  
 50 55

&lt;210&gt; 329

&lt;211&gt; 300

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 329

Lys His Glu Xaa His Gln Val Ser Asp Gly Ala Leu Arg Cys Phe Ala  
 1 5 10 15

Ser Leu Ala Asp Arg Phe Thr Arg Arg Gly Val Asp Pro Ala Pro Leu  
 20 25 30

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FOOTNOTES PAGE 66

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Ala Lys His Gly Leu Thr Glu Glu Leu Leu Ser Arg Met Ala Ala Ala  
35 40 45

Gly Gly Thr Val Ser Gly Pro Ser Ser Ala Cys Lys Pro Xaa Arg Ser  
50 55 60

Thr Thr Gly Ala Pro Ser Thr Thr Ala Asp Ser Lys Leu Ser Asn Gln  
65 70 75 80

Val Ser Thr Ile Val Ser Leu Leu Ser Thr Leu Cys Arg Gly Ser Pro  
85 90 95

Val Val Thr His Asp Leu Leu Arg Ser Glu Leu Pro Asp Ser Ile Glu  
100 105 110

Ser Ala Leu Gln Gly Asp Glu Arg Cys Val Leu Asp Thr Met Arg Leu  
115 120 125

Val Asp Phe Leu Leu Val Leu Leu Phe Glu Gly Arg Lys Ala Leu Pro  
130 135 140

Lys Ser Ser Ala Gly Ser Thr Gly Arg Ile Pro Gly Leu Arg Arg Leu  
145 150 155 160

Asp Ser Ser Gly Glu Arg Ser His Arg Gln Leu Ile Asp Cys Ile Arg  
165 170 175

Ser Lys Asp Thr Asp Ala Leu Ile Asp Ala Ile Asp Thr Gly Ala Phe  
180 185 190

Glu Val Asn Phe Met Asp Asp Val Gly Gln Thr Leu Leu Asn Trp Ala  
195 200 205

Ser Ala Phe Gly Thr Gln Glu Met Val Glu Phe Leu Cys Glu Arg Gly  
210 215 220

Ala Asp Val Asn Arg Gly Gln Arg Ser Ser Ser Leu His Tyr Ala Ala  
225 230 235 240

Cys Phe Gly Arg Pro Gln Val Ala Lys Thr Leu Leu Arg His Gly Ala  
245 250 255

Asn Pro Asp Leu Arg Asp Glu Asp Gly Lys Thr Pro Leu Asp Lys Ala  
260 265 270

Arg Glu Arg Gly His Ser Glu Val Val Ala Ile Leu Gln Ser Pro Gly  
275 280 285

Asp Trp Met Cys Pro Val Asn Lys Gly Asp Asp Lys  
290 295 300

<210> 330

<211> 17

<212> PRT

<213> Homo sapiens

<400> 330

Pro Leu Asp Lys Ala Arg Glu Arg Gly His Ser Glu Val Val Ala Ile  
1 5 10 15



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<210> 331
<211> 15
<212> PRT
<213> Homo sapiens
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```
<210> 332
<211> 54
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids
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Gly Ala Val Trp Asn Asp Lys Pro Asp Lys Glu Thr Phe Lys Lys Pro  
20 25 30

Trp Gln Met Trp Thr Gln Ile His Cys Trp Asn Gly Tyr Arg Trp Asp  
35 40 45

Xaa Xaa Asp Xaa Lys Asp  
50

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<210> 333
<211> 23
<212> PRT
<213> Homo sapiens
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<400> 333  
Ser Trp Ile Gly Ala Val Trp Asn Asp Lys Pro Asp Lys Glu Thr Phe  
1 5 10 15



Lys Lys Pro Trp Gln Met Trp  
20

<210> 334  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 334  
Lys Thr Met Ala Asp Val Asp Pro Asp Thr Leu Leu Glu Trp Leu Gln  
1 5 10 15  
Met Gly Xaa Gly Arg Xaa Lys Gly His Ala Thr Asn Thr Pro  
20 25 30

<210> 335  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 335  
Arg Gly Val Asp Pro Ala Pro Leu Ala Lys His Gly Leu Thr Glu Glu  
1 5 10 15  
Leu Leu Ser Arg Met Ala Ala Ala Gly Gly Thr Val Ser Gly Pro Ser  
20 25 30

Ser Ala

<210> 336  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 336  
Arg Ser Thr Thr Gly Ala Pro Ser Thr Thr Ala Asp Ser Lys Leu Ser  
1 5 10 15  
Asn Gln Val Ser Thr Ile Val Ser Leu Leu Ser Thr Leu Cys Arg  
20 25 30

<210> 337

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<211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 337  
 Phe Glu Val Asn Phe Met Asp Asp Val Gly Gln Thr Leu Leu Asn Trp  
   1                  5                  10                  15  
 Ala Ser Ala Phe Gly Thr Gln Glu Met Val Glu Phe Leu Cys Glu Arg  
                   20                  25                  30

Gly Ala

<210> 338  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 338  
 Glu Asp Gly Lys Thr Pro Leu Asp Lys Ala Arg Glu Arg Gly His Ser  
   1                  5                  10                  15  
 Glu Val Val Ala Ile Leu Gln Ser Pro Gly Asp Trp  
                   20                  25

<210> 339  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 339  
 Lys Ala Asp Val Lys Trp His Met Cys Leu Gln Ser Pro Leu Cys Gly  
   1                  5                  10                  15  
 Leu Phe Cys Ser Ile Glu Gly Val Leu Lys  
                   20                  25

<210> 340  
 <211> 218  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (99)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

0097329-101001



&lt;222&gt; (101)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 340

Ala	Cys	Met	Asn	Pro	Ala	Met	Cys	Phe	Val	Cys	Ala	Cys	Pro	His	Thr
1				5					10					15	

Gly	Ser	Thr	Pro	Glu	Lys	Ala	Ile	Leu	Gln	Gly	Arg	Leu	Ile	Ser	Leu
			20					25					30		

Gly	Thr	Ser	Leu	Ser	Pro	Ala	Ser	Asn	Gly	Ser	Gly	Gln	Gln	Ser	Phe
		35					40					45			

Ser	Ile	Cys	Met	Ile	Asn	Pro	Ser	Leu	Pro	Xaa	Ser	Thr	Ser	Ser	His
	50					55					60				

His	Leu	Phe	Ser	Val	Leu	Thr	Gly	Asp	Leu	Asp	Ser	Tyr	Ser	Gln	Arg
65					70					75					80

Lys	Leu	Lys	Pro	Thr	Ser	Arg	Lys	Ser	Phe	Leu	Leu	Pro	Lys	Thr	Gln
				85					90					95	

Thr	Tyr	Xaa	Val	Xaa	His	Pro	Ser	Ser	Pro	Pro	Leu	Val	Leu	Val	Gln
			100					105					110		

His	Arg	Ser	Pro	Leu	Ser	Thr	Tyr	Pro	Lys	Pro	Val	Pro	Ser	Cys	Cys
		115					120					125			

Ala	Leu	Asp	Leu	Ile	Ser	Val	Ile	Ala	Leu	Glu	Thr	Phe	Leu	Val	Tyr
	130					135					140				

Ile	His	Leu	Phe	Pro	Ser	Ile	Asp	Leu	Ser	Tyr	Trp	Ile	Leu	Ser	Met
145					150					155					160

Leu	Gln	Pro	Leu	Leu	Leu	Ile	Lys	Gln	Gln	Ser	Thr	Lys	Thr	Leu	Ser
			165					170						175	

Leu	Asn	Cys	Met	Leu	Tyr	Ser	Ser	Tyr	Tyr	Leu	Ile	Ser	Phe	Leu	Ser
			180					185					190		

Phe	Lys	Ala	Lys	Val	Leu	Arg	Arg	Gly	Gly	Asn	Ile	Leu	His	His	Phe
	195						200					205			

Phe	Thr	Ser	Tyr	Ser	Phe	Phe	Asn	Thr	Tyr
	210					215			

&lt;210&gt; 341

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 341

Cys	Pro	His	Thr	Gly	Ser	Thr	Pro	Glu	Lys	Ala	Ile	Leu	Gln	Gly	Arg
1					5				10					15	

Leu	Ile	Ser	Leu	Gly	Thr	Ser	Leu	Ser	Pro	Ala	Ser
			20					25			

099333-1001  
TOTOT 8/22/66



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<400> 345
Leu Leu Asn Cys Cys Val Cys Ala Ala Leu Met Arg Pro Leu Val Val
 1             5             10             15

Thr Ala Gln Pro Gly Xaa Gly Pro Pro Arg Pro
      20             25

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<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

Leu Tyr Ala Val Ala Ala Ser Val Met  
20 25

<400> 347  
Gln Ala Gln Ser Asp Cys Ser Cys Ser Thr Val Ser Pro Gly  
1 5 10

<400> 348  
Val Leu Ala Gly Ile Val Met Gly Asp Leu Val Leu Thr Val Leu Ile  
1 5 10 15

Ala Leu Ala Val Tyr Phe Leu Gly  
20

<400> 349  
Val Pro Arg Gly Arg Gly Ala Ala Glu Ala Thr Arg Lys Gln Arg Ile  
1 5 10 15

Thr Glu Thr Glu Ser Pro Tyr Gln Glu Leu Gln Gly Gln Arg Ser Asp  
20 25 30

Val Tyr Ser Asp Leu  
35



<210> 350  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 350  
 Glu Thr Glu Ser Pro Tyr Gln Glu Leu Gln Gly Gln Arg Ser Asp Val  
   1                  5                  10                  15  
 Tyr Ser Asp Leu Asn Thr  
                   20

<210> 351  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 351  
 Leu Val Cys Tyr Cys Ser Thr Lys Lys Glu Lys Lys Leu His Glu Ile  
   1                  5                  10                  15  
 Ala Ile Gln Gln Gly Gln Asn Trp Arg Trp Leu Leu Phe Tyr Lys Glu  
                   20                  25                  30  
 Ile Ser Val Pro Gly Phe Gln Ser Val Trp Cys Ser Tyr Lys Cys Leu  
           35                  40                  45  
 Cys Val Val Trp Lys Ala Gly Glu Gly Gly  
       50                  55

<210> 352  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 352  
 Arg Arg Ser Cys Ser Gly Pro Pro Leu Val Asn Thr Ala Gly Lys Ile  
   1                  5                  10                  15  
 Leu Ser Ser Ser Pro Ala Lys Leu Ala Cys Lys Arg Thr Asp Phe His  
           20                  25                  30  
 Ile Pro Ser Ile  
           35

<210> 353  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 353  
 Arg Ala Ser Ile Leu Gly Ile Asp Asn Glu Arg Gly Cys His Phe Arg  
   1                  5                  10                  15



His Phe Asn Pro Leu Lys Glu Tyr Lys Arg Lys Lys Lys Glu Asn Lys  
                   20                  25                  30

Ser Phe Arg Ile Val  
                   35

<210> 354

<211> 77

<212> PRT

<213> Homo sapiens

<400> 354

Ser Lys Asn Lys Thr Arg Gly Gly Asp Trp Cys Val Thr Val Leu Arg  
   1                  5                  10                  15

Lys Arg Arg Lys Ser Phe Met Lys Ser Pro Phe Ser Lys Asp Arg Thr  
                   20                  25                  30

Gly Asp Gly Phe Ser Phe Thr Lys Lys Ser Leu Ser Gln Ala Phe Ser  
                   35                  40                  45

Leu Phe Gly Val His Thr Ser Val Cys Val Leu Cys Gly Arg Arg Gly  
                   50                  55                  60

Lys Ala Gly Glu Gly Gly Pro Val Gln Gly Pro Leu Trp  
                   65                  70                  75

<210> 355

<211> 55

<212> PRT

<213> Homo sapiens

<400> 355

Met Lys Ser Pro Phe Ser Lys Asp Arg Thr Gly Asp Gly Phe Ser Phe  
   1                  5                  10                  15

Thr Lys Lys Ser Leu Ser Gln Ala Phe Ser Leu Phe Gly Val His Thr  
                   20                  25                  30

Ser Val Cys Val Leu Cys Gly Arg Arg Gly Lys Ala Gly Glu Gly Gly  
                   35                  40                  45

Pro Val Gln Gly Pro Leu Trp  
                   50                  55

<210> 356

<211> 154

<212> PRT

<213> Homo sapiens

<400> 356

Met Gly Lys Arg Ala His Glu Val Arg Arg Pro Pro His Ser Arg Pro  
   1                  5                  10                  15

Leu His Gly Thr Pro Ala Gly Trp Val Leu Asp Pro Ser Gly Tyr Lys

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157

20	25	30
Asp Val Thr Gln Asp Ala Glu Val Met Glu Val Leu Gln Asn Leu Tyr		
35	40	45
Arg Thr Lys Ser Phe Leu Phe Val Gly Cys Gly Glu Thr Leu Arg Asp		
50	55	60
Gln Ile Phe Gln Ala Leu Phe Leu Tyr Ser Val Pro Asn Lys Val Asp		
65	70	75
Leu Glu His Tyr Met Leu Val Leu Lys Glu Asn Glu Asp His Phe Phe		
85	90	95
Lys His Gln Ala Asp Met Leu Leu His Gly Ile Lys Val Val Ser Tyr		
100	105	110
Gly Asp Cys Phe Asp His Phe Pro Gly Tyr Val Gln Asp Leu Ala Thr		
115	120	125
Gln Ile Cys Lys Gln Gln Ser Pro Gly His Leu Tyr Ser Asn Ser Trp		
130	135	140
Ser Ala Thr Pro Asp Gly Arg Gly Gly Pro		
145	150	

<210> 357  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 357  
 Val Leu Asp Pro Ser Gly Tyr Lys Asp Val Thr Gln Asp Ala Glu Val  
 1 5 10 15  
 Met Glu Val Leu Gln Asn Leu Tyr Arg Thr  
 20 25

<210> 358  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 358  
 Tyr Ser Val Pro Asn Lys Val Asp Leu Glu His Tyr Met Leu Val Leu  
 1 5 10 15  
 Lys Glu Asn Glu Asp His Phe Phe Lys His  
 20 25

<210> 359  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens



&lt;400&gt; 359

Asp Leu Ala Thr Gln Ile Cys Lys Gln Gln Ser Pro Gly His Leu Tyr  
 1 5 10 15

Ser Asn Ser Trp Ser Ala Thr Pro Asp  
 20 25

&lt;210&gt; 360

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 360

Arg Arg Met Lys Thr Ile Ser Leu Ser Ile Arg Gln Ile Cys Phe Cys  
 1 5 10 15

Thr Glu Ser Lys Leu Tyr Pro Thr Gly Thr Val Leu Thr Thr Phe Gln  
 20 25 30

Asp Met Cys Lys Thr Leu Pro Leu Arg Ser Ala Asn Ser Lys Ala Gln  
 35 40 45

Asp Ile Cys Thr Arg Ile His Gly Val Pro Leu Leu Met Gly Glu Glu  
 50 55 60

Ala His Asp Ser Asp Ser His Ala Ser Asp Arg Gly His His Thr Met  
 65 70 75 80

Leu Pro Leu Pro Ala Gly Ser Phe Ser Glu Ser Ser His Gln Ala Trp  
 85 90 95

Glu Val Glu Met Leu Ile Ala Trp Thr Ala Pro His Tyr Trp Val Met  
 100 105 110

His Ala Arg Thr Val Gln Arg Gly Ser  
 115 120

&lt;210&gt; 361

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 361

Thr Glu Ser Lys Leu Tyr Pro Thr Gly Thr Val Leu Thr Thr Phe Gln  
 1 5 10 15

Asp Met Cys Lys Thr Leu Pro Leu Arg Ser Ala  
 20 25

&lt;210&gt; 362

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 362

10944660



Gly His His Thr Met Leu Pro Leu Pro Ala Gly  
20 25

<400> 363  
Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Cys Thr Arg Leu  
1 5 10 15

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<210> 364
<211> 62
<212> PRT
<213> Homo sapiens
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<400> 364
Met Ser Thr Gly Asp Gly Arg Asp Ala Glu Lys Gly Trp Pro Val Ser
  1             5             10             15
```

Glu Glu Glu Asn Gln Arg Ser Val Tyr Pro Gly Tyr Pro Glu Cys Asp  
20 25 30

Glu Arg Gln Ala Val Pro Gln His Cys Ala Ile Ala Ser Pro Ser Ser  
35 40 45

Leu Gln Ser His His Pro Ala Ser Ala Cys Val Pro Arg Arg  
50 55 60

```
<210> 365
<211> 38
<212> PRT
<213> Homo sapiens
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<400> 365  
Gln Gln Met Thr Leu Gly Thr Lys Ile Lys Trp Gly Gln Leu Gln Arg  
1 5 10 15

Gly Gln Glu Ile Pro Thr Gly Asp Phe Thr Val Arg Asn Phe Met Arg  
20 25 30

Phe Ser Ile Ile Tyr Cys  
35

<210> 366  
<211> 31



<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 366  
 Pro Phe Leu Phe Cys Ala Ser Arg Ile Arg Xaa Gln Gly Ile Gly Ile  
 1 5 10 15  
 His Gly Gln Val Ala Cys Ser Ala Val Arg Met Tyr Asn Asn Arg  
 20 25 30

<210> 367  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 367  
 Lys Cys Ile Tyr Pro Lys Pro Ala Arg Thr His His Cys Ser Ile Cys  
 1 5 10 15  
 Asn Arg Cys Val Leu Lys Met Asp His His Cys Pro Trp Leu Asn Asn  
 20 25 30  
 Cys Val Gly His Tyr Asn His Arg Tyr Phe Phe Ser Phe Cys Phe Phe  
 35 40 45  
 Met Thr Leu Gly Cys Val Tyr Cys Ser Tyr Gly Ser Trp Asp Leu Phe  
 50 55 60  
 Arg Glu Ala Tyr Ala Ala Ile Glu Lys Met Lys Gln Leu Asp Lys Asn  
 65 70 75 80  
 Lys Leu Gln Ala Val Ala Asn Gln Thr Tyr His Gln Thr Pro Pro Pro  
 85 90 95  
 Thr Phe Ser Phe Arg Glu Arg  
 100

<210> 368  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 368  
 Ala Arg Gly His Trp Asn Leu Ile Leu Ile Val Phe His Tyr Tyr Gln  
 1 5 10 15  
 Ala Ile Thr Thr Pro Pro Gly Tyr Pro Pro Gln Gly Arg Asn Asp Ile  
 20 25 30  
 Ala Thr Val Ser Ile Cys  
 35

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 TOTOT 3422660



<210> 369  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 369  
 Trp Gln Cys Glu Leu Asp Cys Val Ser His Asp Ser Ser Thr His Ser  
   1                  5                  10                  15  
 Ala Pro Tyr Val Ile Ser Arg Ala Ser Lys Gly Ser Phe Ser Gln Asn  
                   20                  25                  30

Pro

<210> 370  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 370  
 Ser Lys Arg Ala Ser Gly Pro Ala Leu Gly Tyr His Ala Gly Gln Phe  
   1                  5                  10                  15  
 Lys Asp Gln Pro Phe Tyr His Cys Arg Arg Lys Thr Gln Cys Gly Glu  
                   20                  25                  30  
 Ile Leu Gly Leu Thr Ser Leu Tyr Ser Gly Lys Gln Lys Phe Gln Pro  
                   35                  40                  45  
 Gln Thr Arg Gly Gln Ala Ala Ser Tyr Leu Pro Cys Pro Val Leu Thr  
                   50                  55                  60  
 Arg Thr Ser Ser Arg Ile Gln His Trp Ser Trp Pro Pro Pro Leu Leu  
   65                  70                  75                  80  
 Leu Ala Val

<210> 371  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 371  
 Glu Ser Leu Gln Leu Arg Leu Leu Gly Gln Leu Glu Gly Ile Pro Gly  
   1                  5                  10                  15  
 Cys Gly Tyr Arg Lys Ala Leu Ala Tyr Ser Gly Ala Leu Thr Phe  
                   20                  25                  30

<210> 372  
 <211> 66

009733-1004



<213> Homo sapiens

Ser Leu Ala Pro Trp Glu Trp Asn Glu Leu Gly Ala Pro Ser Leu Gly  
1 5 10 15

Asp Cys Ser Leu Ser Leu Cys Asp Gly Ser Val Ser Trp Thr Val Ser  
20 25 30

Ala Thr Thr Arg Ala Leu Ile Leu Leu Pro Met Leu Phe Gln Gly Pro  
35 40 45

Pro Arg Ala Ala Phe Leu Arg Ile Leu Asp Gln Lys Glu Pro Val Gly  
50 55 60

Leu Pro  
65

<211> 9

<213> Homo sapiens

Leu Lys Cys Thr Ile Tyr Gly Gly Ala  
1 5

<211> 20

<213> Homo sapiens

Ala Ser Ile Asp Thr Trp Pro Gly Arg Arg Ser Gly Gly Met Ile Val  
1 5 10 15

Ile Thr Ser Ile  
20

<211> 41

<213> Homo sapiens

Gly Ser Pro Gln Ala Glu Thr Arg Trp Ser Asp Pro Ile Ala Leu His  
1 5 10 15

Gln Gly Lys Ser Pro Ala Ser Ile Asp Thr Trp Pro Gly Arg Arg Ser  
20 25 30

Gly Gly Met Ile Val Ile Thr Ser Ile  
35 40



<210> 376  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 376  
 Gly Ser Lys Gly Gln Glu Arg Lys Trp Arg Val Arg Met Gly Tyr Leu  
           1                  5                  10                  15

Asn

<210> 377  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 377  
 Gln Arg Tyr Arg Leu Leu Pro Leu Phe Cys Tyr Val Cys Ser Arg Lys  
           1                  5                  10                  15

Ile Lys Leu Asn Glu Asn Leu Phe Val Phe Ser Ala Tyr Ser Leu Ala  
                   20                  25                  30

Thr Leu Pro His Thr Tyr Leu Phe Ser Ile Val Glu Cys Ser Ser Phe  
           35                  40                  45

Cys Leu Ser Gly Thr Arg Asn  
           50                  55

<210> 378  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 378  
 Phe Ser Ala Tyr Ser Leu Ala Thr Leu Pro His Thr Tyr Leu Phe Ser  
           1                  5                  10                  15

Ile Val Glu Cys Ser Ser Phe Cys Leu Ser Gly  
                   20                  25

<210> 379  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 379  
 Met Thr Leu Asp Glu Trp Lys Asn Leu Gln Glu Gln Thr Arg Pro Lys  
           1                  5                  10                  15

Pro Glu Phe Asn Ile Arg Lys Pro Glu Ser Thr Val Pro Ser Lys Ala  
                   20                  25                  30

TOP SECRET







Asp Ala Arg Cys Cys Pro Gln Pro Arg  
           35                          40

<210> 382  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 382  
 Cys Leu Lys Cys Val Tyr Arg Asp Ser Ile Asp Ser Ser Ala Glu Ala  
   1                          5                          10                          15

Trp Arg Glu Arg Arg Leu  
                           20

<210> 383  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 383  
 Ala Arg Ala Gly Gln Met Gln Asn Leu Glu Ser Ala Arg Ala Gly Arg  
   1                          5                          10                          15

Ser Val Ser Thr Gln Thr Gly Ser  
                           20

<210> 384  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 384  
 Thr Val Trp Gly Ile Leu Pro Arg Lys Arg  
   1                          5                          10

<210> 385  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 385  
 His Glu Ala Ala Gln Gly Ala Val Cys Arg Gly Gln Gly Ala Pro Ala  
   1                          5                          10                          15

Thr Asn Pro Gln Ala Pro Val Ala Ala Ala Arg Val Ala Arg Arg  
                   20                          25                          30

Val Asn

TOOT "BEEZEE"



<210> 386  
 <211> 255  
 <212> PRT  
 <213> Homo sapiens

<400> 386  
 Lys Ile Pro Ser Ala Asn Arg Arg Ala Thr Arg Cys Leu Gly Cys Asp  
   1                  5                  10                  15  
 His Gln Asn Phe Val Lys Val Arg Asn Lys His Lys Gly Lys Pro Thr  
                   20                  25                  30  
 Phe Met Glu Glu Val Leu Glu His Leu Pro Gly Lys Thr Gln Asp Glu  
                   35                  40                  45  
 Val Gln Gln His Glu Lys Trp Tyr Gln Lys Phe Leu Ala Leu Glu Glu  
                   50                  55                  60  
 Arg Lys Lys Glu Ser Ile Gln Ile Trp Lys Thr Lys Lys Gln Gln Lys  
   65                  70                  75                  80  
 Arg Glu Glu Ile Phe Lys Leu Lys Glu Lys Ala Asp Asn Thr Pro Val  
                   85                  90                  95  
 Leu Phe His Asn Lys Gln Glu Asp Asn Gln Lys Gln Lys Glu Glu Gln  
                   100                  105                  110  
 Arg Lys Lys Gln Lys Leu Ala Val Glu Ala Trp Lys Lys Gln Lys Ser  
                   115                  120                  125  
 Ile Glu Met Ser Met Lys Cys Ala Ser Gln Leu Lys Lys Lys Lys  
   130                  135                  140  
 Lys Lys Lys Lys Asn Gln Lys Glu Arg Gln Arg Gln Phe Lys Leu Lys  
  145                  150                  155                  160  
 Leu Leu Leu Glu Ser Tyr Thr Gln Gln Lys Lys Glu Gln Glu Glu Phe  
                   165                  170                  175  
 Leu Arg Leu Glu Lys Glu Ile Arg Glu Lys Ala Glu Lys Ala Glu Lys  
                   180                  185                  190  
 Arg Lys Asn Ala Ala Asp Glu Ile Ser Arg Phe Gln Glu Arg Asp Leu  
                   195                  200                  205  
 His Lys Leu Glu Leu Lys Ile Leu Asp Arg Gln Ala Lys Glu Asp Glu  
   210                  215                  220  
 Lys Ser Gln Lys Gln Arg Arg Leu Ala Lys Leu Lys Glu Lys Val Glu  
  225                  230                  235                  240  
 Asn Asn Val Ser Arg Asp Pro Ser Arg Leu Tyr Lys Pro Thr Lys  
                   245                  250                  255

<210> 387  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

009327-10100







ys Phe Phe Val Phe Val E

Ser Arg Asp Pro Ser Arg Leu Tyr  
20

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<400> 392
Leu Pro Pro Cys Leu Ala Gln Ile Phe Pro Phe Phe Ser Ser Gly Thr
  1                      5                      10                      15

Asn Leu Thr Phe Cys Phe Phe Val Phe Val Phe Val Phe Val Phe Ala
      20                      25                      30

Glu Leu Asp Tyr Arg Asn Ser Tyr Glu Ile Glu Tyr
      35                      40

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<400> 393  
His Val Leu Trp Ser Leu Leu Ser Ala Cys Trp Thr Gln Phe Leu Val  
1 5 10 15  
Tyr Phe Cys Cys Leu Met Ile Leu Gln Arg Thr Phe Pro Pro Arg Ala  
20 25 30  
Leu Arg Thr Ser Pro Trp Leu Ser Asn Pro Met Gly Val Lys Gly Lys  
35 40 45  
Lys Lys Lys Gly Thr Phe Met Glu  
50 55

```

<400> 394
Phe Leu Val Tyr Phe Cys Cys Leu Met Ile Leu Gln Arg Thr Phe Pro
  1                               10                      15
Pro Arg Ala Leu Arg Thr Ser Pro Trp Leu Ser Asn Pro Met
      20                      25                      30

```

<210>	395
<211>	18



<213> Homo sapiens

Ile Arg His Glu Arg Leu Trp Ala Glu Leu Ala Leu Leu Thr Gly Arg  
1 5 10 15

<210> 396

<212> PRT

<213> Hom

<213> Homo sapiens

<400> 396

Leu Ile Ser Ser Val Asn Lys Thr Lys Gln Lys Arg Ser Asp Ala Thr  
1 5 10 15

Leu Ser His Lys His Asp Arg Leu Leu Asn His Phe Val Phe Phe Gly  
20 25 30

Asn Ser Tyr Asn Tyr  
35

<210> 397

<211> 127

&lt;212&gt; PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

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<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 397

Ser Ser Lys Phe Pro Ser Asp Met Leu Leu Arg Ile Gln Gln Ile Ile  
1 5 10 15

Tyr Cys His Lys Leu Thr Ile Ile Leu Thr Lys Trp Arg Asn Thr Ala  
20 25 30

Arg His Lys Ser Lys Lys Lys Glu Asp Glu Leu Ile Leu Lys His Glu  
35 40 45

Leu Gln Leu Lys Lys Trp Lys Asn Arg Leu Ile Leu Lys Arg Ala Ala  
50 55 60

Ala Glu Glu Ser Asn Phe Pro Glu Arg Ser Ser Ser Glu Val Phe Leu  
65 70 75 80

Val Asp Glu Thr Leu Lys Cys Asp Ile Ser Leu Leu Pro Glu Xaa Ala  
85 90 95

Ile Leu Gln Val Cys Met Asn Ser Val Tyr Ile Ile Tyr Tyr Asn Leu  
100 105 110



ys	Asn	Asp	Gln	Met	Arg	P
5					10	

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<210> 398
<211> 11
<212> PRT
<213> Homo sapiens
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<210> 399
<211> 19
<212> PRT
<213> Homo sapiens
```

Ile Asp Tyr

<400> 400  
Ile Thr Leu Cys Phe Leu Glu Thr Ala Ile Thr Ile Asn Ile Tyr Ser  
1 5 10 15

Ser Ile Val Thr Ser  
35

<400> 401  
Ile Ser Phe Arg Tyr Ala Ile Ala Asp Thr Thr Asp His Leu Leu Ser  
1 5 10 15

Gln Ala Asn His Tyr Pro Asn Lys Met Ala Glu Tyr Ser Lys Thr  
20 25 30







<210> 405  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 405  
 Gly Trp Leu Tyr Gly Ser Val Gly Leu Ile Pro His Ser Ala Ala Glu  
   1                  5                  10                  15  
 Ala Thr Gly

<210> 406  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 406  
 Val Cys Ile Pro Gly Ala Ala Gly Leu Ser Val Leu Leu Gly  
   1                  5                  10

<210> 407  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 407  
 Ile Ala Trp Ser Gly Asn Ile Pro Ser Leu Leu Cys Leu Phe Glu His  
   1                  5                  10                  15

Asp Met Ser Phe Gln Asp Glu  
                   20

<210> 408  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 408  
 Ile Arg His Glu Gly Gln Ser Ser Ser Arg Gly Ser Ser His Cys Asp  
   1                  5                  10                  15

Ser Pro Ser Pro Gln Glu Asp Gly Gln Ile Met Phe Asp Val Glu Met  
                   20                  25                  30

His Thr Ser Arg Asp His Ser Ser Gln Ser Glu Glu Glu Val Val Glu  
                   35                  40                  45

Gly Glu Lys Glu Val Glu Ala Leu Lys Lys Ser Ala Asp Trp Val Ser  
                   50                  55                  60

Asp Trp Ser Ser Arg Pro Glu Asn Ile Pro Pro Lys Glu Phe His Phe  
   65                  70                  75                  80



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<210> 409
<211> 40
<212> PRT
<213> Homo sapiens
```

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<210> 410
<211> 47
<212> PRT
<213> Homo sapiens
```

```
<210> 411
<211> 52
<212> PRT
<213> Homo sapiens
```

```

<400> 411
Ala His Pro Leu Pro Ala Pro Thr Glu Gly Lys Glu Lys Pro Leu Glu
  1                      5                      10                      15
Met Arg Val Thr Cys Glu Val Val Tyr Cys His Ser Ser Leu Phe Glu
                20                      25                      30
Leu Glu Thr Ile Val Ser Met Thr Gln Pro Thr Thr Leu Phe Leu His
          35                      40                      45
Ile Gln Phe Gln
      50

```

<210> 412



<211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 412  
 Thr Phe Cys Val Phe Lys His Glu Glu Lys Trp Ser His Glu Glu Arg  
   1                  5                  10                  15  
 Gly Tyr Phe Leu Arg Arg Ile Ser Glu Gly Val His Ser Ile Ser Leu  
                   20                  25                  30  
 Pro Phe Ser Cys Phe Gly Phe Gly Ala Arg His Leu Tyr Trp Lys Ala  
           35                  40                  45  
 Thr Glu His Thr Leu Cys Gln His Leu Leu Arg Glu Arg Lys Ser Pro  
   50                  55                  60  
 Trp Lys Cys Val  
   65

<210> 413  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 413  
 Gln Ser Leu Leu Leu Phe Arg Asn Leu Gln Gly Leu Leu Phe Arg Lys  
   1                  5                  10                  15  
 Cys His Gln Gln Ile Ile Ile Leu Ser Ala Met Leu Leu Ser Leu Ile  
                   20                  25                  30  
 Ser Ala Thr Arg Leu Asp Leu Tyr His Ser Trp Tyr Lys Phe Tyr Ser  
   35                  40                  45  
 Cys Asn Ile Thr Thr Ile Ser Leu Leu Lys Arg Asp Gln Val Ser Lys  
   50                  55                  60

<210> 414  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 414  
 Val Thr Ala Tyr Gln Asn Gln Gln Ile Thr Arg Leu Lys Ile Asp Arg  
   1                  5                  10                  15  
 Asn Pro Phe Ala Lys Gly Phe Arg  
           20

<210> 415  
 <211> 16

100101-000000



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 415

Gly	Thr	Ala	Thr	Val	Thr	Ala	Tyr	Gln	Asn	Gln	Gln	Ile	Thr	Arg	Leu
1					5				10					15	

&lt;210&gt; 416

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 416

Lys	Ile	Asp	Arg	Asn	Pro	Phe	Ala	Lys	Gly	Phe	Arg	Asp	Ser	Gly	Arg
1				5					10					15	

Asn	Arg	Met	Gly	Leu	Glu	Ala	Leu
			20				

&lt;210&gt; 417

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 417

Ser	Thr	Leu	Leu	Gln	Val	Leu	Gly	Met	Ala	Phe	Leu	Pro	Leu	Thr	Leu
1				5					10					15	

Thr	Phe	Cys	Leu	Ala
			20	

&lt;210&gt; 418

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 418

Val	Glu	Ser	Tyr	Ala	Phe	Trp	Arg	Pro	Ser	Leu	Arg	Thr	Leu	Thr	Phe
1				5					10					15	

Glu	Asp	Ile	Pro	Gly	Ile	Pro	Lys	Gln	Gly	Asn	Ala	Ser	Ser
			20					25					30

&lt;210&gt; 419

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

0993329-104004

T00T0T"0AEEA60



&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 419

His Gly Asp Trp Ile Tyr Val His Ile Val Glu Gln Leu Asn Gln Ala  
 1 5 10 15

Asn Asn Lys Ser Val Thr Ser His Thr Tyr Phe Val Val Lys Thr Cys  
 20 25 30

Lys Ile His Ser Leu Ser Asn Phe Gln Ala Ser Asn Thr Leu Leu Xaa  
 35 40 45

Thr Val Val Thr Met Leu Tyr Asn Arg Ser Leu Glu Leu Ile Leu Pro  
 50 55 60

Val  
 65

&lt;210&gt; 420

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 420

Thr Tyr Ser Ser Cys Leu Thr Lys Ile Leu Tyr Ser Leu Ile Asn Ile  
 1 5 10 15

Tyr Pro Ile Pro His Cys Ser Pro Ala Xaa Ile Thr Thr Ile Leu Leu  
 20 25 30

Ser Ala Ser Met Asn Leu Thr Phe Phe Phe Phe Arg Phe His Ile Cys  
 35 40 45

Glu Ile Ala Gln Tyr Leu Ser Phe Cys Ala Trp Leu Ile Ser Leu Asn  
 50 55 60

Ile Lys Ser Leu  
 65

&lt;210&gt; 421

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 421

Met Asn Leu Thr Phe Phe Phe Phe Arg Phe His Ile Cys Glu Ile Ala  
 1 5 10 15

Gln Tyr Leu Ser Phe Cys Ala Trp Leu Ile Ser Leu Asn Ile Lys Ser  
 20 25 30

T00T0T"82E2660



Leu

<210> 422  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 422  
 Arg Ser Lys Arg Gln Ser Gln Gly Ser Arg Cys Ser Val Pro Leu Leu  
   1                  5                  10                  15  
 Ala Gln Gln Ser Arg Ser Pro Pro Val Pro Leu Gln Ala Gln Pro Ala  
                   20                  25                  30  
 Trp Leu Leu Gly Ser Glu Thr Ile Ala Trp Ser Gly Gly Gly Ser Gly  
           35                  40                  45  
 Trp Glu Gly Pro Arg Asp Pro Gly Thr Ser Thr Ala Ala Gly Asn Ser  
   50                  55                  60  
 Gly Pro Gly Ile Gly Met Gly His Arg Thr Pro Pro Pro Ser His Thr  
   65                  70                  75                  80  
 Gly Arg

<210> 423  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 423  
 Arg Trp Asp Pro Ala Trp Gly Leu Asp Ile Pro Glu Ser Ser Cys Pro  
   1                  5                  10                  15  
 Val Thr Met Gly Glu Leu Arg Ser Gly Asp Gly Ile Val Leu  
           20                  25                  30

<210> 424  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 424  
 Gly Ala Leu Leu Trp Asp Asn Ser Met Ile Ser Ala Pro Arg Gly Ser  
   1                  5                  10                  15  
 His Arg Glu Ala Gly Ala Leu Phe Pro Ser Trp Leu Ser Asn Pro Ala  
           20                  25                  30  
 Val Leu Pro Ser Arg Ser Arg Pro Ser Gln Pro Gly Cys Leu Asp Pro  
   35                  40                  45  
 Arg Gln

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50

<210> 425  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 425  
 Asn Ser Ala Arg Glu Pro Arg Arg Trp Ile Arg Pro Thr Arg Gly Ser  
   1                  5                  10                  15  
 Gly Glu Thr Thr Ala Pro Cys Cys Phe Glu Pro Leu Asn Gly Gly Thr  
                   20                  25                  30  
 Leu Val His Ala Ala Ala Met Ala Arg Ala Ser Glu Ala Ala Gly Thr  
           35                  40                  45  
 Gly

<210> 426  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 426  
 Met Ala Arg Ala Ser Glu Ala Ala Gly Thr Gly  
   1                  5                  10

<210> 427  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 427  
 Cys Phe Thr Thr Ala Phe Gln Lys Ala Leu Arg Asp Pro Arg Pro Thr  
   1                  5                  10                  15  
 Leu Pro Asp Thr His Gly Ser Leu Arg Asn Ala Pro Leu Lys Ser Leu  
           20                  25                  30  
 Thr Leu Pro Ala Ala Phe Val Val Ser Phe Phe Phe Leu Ser Leu Leu  
           35                  40                  45  
 Gln Asp Gly Ile Lys Glu Arg Ser Gln Thr Gln Asn Ala Thr Phe Phe  
   50                  55                  60  
 Phe His Asp Arg Ser Asp Ile Glu Gly Leu Ser Glu Glu Pro Cys Ser  
   65                  70                  75                  80  
 Gly Thr Thr Pro

TOP SECRET



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<400> 428
Leu Ala Leu Gln Glu Ala Val Thr Gly Lys Gln Val Leu Cys Ser Pro
  1                      5                      10                      15

Pro Gly Ser Ala Ile Pro Gln Ser Ser Arg Pro Ala Pro Gly Pro Ala
                20                      25                      30

Ser Leu Ala Ala Trp Ile Arg Asp Asn Ser Leu Val Trp Arg Arg Leu
      35                      40                      45

Arg Val Gly Gly Thr Gln Gly Pro Gly His Gln Tyr Ser Ser Trp Glu
  50                      55                      60

Phe Arg Pro Arg Asp Arg Asp Gly Ala Gln Asp Thr Thr Pro Ile Ser
  65                      70                      75                      80

His Arg Glu Met Lys Val Gly Ser Ser Met Gly Thr Gly His Pro
      85                      90                      95

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<400> 429
Met Ala Gly Arg Leu Phe Thr Leu Leu Leu Trp Gln Glu Leu Ala Arg
  1                      5                      10                      15

Arg Leu Val Pro Gly Asp Ala Ser Pro Arg Leu Ser Arg Lys Arg Ser
                20                      25                      30

Val Thr Pro Gly Pro Pro Phe Pro Thr Leu Thr Val Pro Ser Glu
          35                      40                      45

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```

<400> 430
Val Trp Leu Leu Ser Ser Ile Leu Leu Arg Val Leu Trp Asn Arg Tyr
  1                               10                          15

Thr Leu Gln Glu Leu Ser Phe Trp Leu Pro Trp Phe Ala Ser Arg Ala
  20                               25                          30

Thr Ser Leu Val Leu Gln His Gly Asp Asn Tyr Leu Leu Phe Leu Phe
  35                               40                          45

Cys Phe Val Cys Phe Val Leu Ala Met Pro Phe
  50                               55

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<400> 431
Ile Arg His Glu Val Ser Met Ala Phe Val Phe His Leu Ala Gln Gly
  1                      5                      10                      15
Thr Leu Glu Pro Leu Tyr Ile Ala Gly Ala
      20                      25

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<210> 433
<211> 26
<212> PRT
<213> Homo sapiens

<400> 433
His Glu Leu Thr Val Pro Ser Arg Met Gly Ser Lys Gly Lys Pro Tyr
 1              5              10              15

Pro Cys Gly Phe Tyr Ser Ser Leu Ile Pro
          20              25

```

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<210> 434
<211> 59
<212> PRT
<213> Homo sapiens

<400> 434
Gly Thr Glu Ser Pro Met Val Met Cys Cys Arg Glu Val Ser Gln Ser
 1             5             10             15
Glu Asn Cys Leu Phe Leu Asp Thr Thr Phe Arg Phe Ile Phe Gly Lys
      20             25             30
Thr Phe Thr Asn His Asp Tyr Ile Ser Ile His Phe Tyr Phe Leu Lys
      35             40             45

```



Ala Phe Leu Phe Ser Phe Phe Tyr Ser Asn Val  
 50 55

<210> 435  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 435  
 Ser Leu Gln Tyr Arg Ile Arg Ile Pro Gly Arg Pro Thr  
 1 5 10

<210> 436  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 436  
 Asp Leu Val Thr Tyr Thr Ser Ser Leu Gln Tyr Arg Ile Arg Ile Pro  
 1 5 10 15

Gly Arg Pro Thr Arg Pro  
 20

<210> 437  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 437  
 Leu Gly Asn Lys Lys Tyr Ile Asn Ile Arg Cys Leu Glu Met Gln Val  
 1 5 10 15

Thr Leu Lys Ile Leu Cys Glu Ile Glu Lys Lys Glu Arg Arg Gly Thr  
 20 25 30

His Cys Leu Val  
 35

<210> 438  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 438  
 Val Lys Thr Ala Glu Cys Tyr Ser Ile Pro Leu Gly Ser Cys Pro Val  
 1 5 10 15

Asn Ile Gln Arg Val Arg  
 20



<210> 439  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 439  
 His Lys Cys Phe Gln Cys Phe Ile Leu Ala Asn Gly Phe Leu Lys Val  
   1                  5                  10                  15  
 Ile Lys Pro Phe Gln Arg Asn Trp Ser Asp Lys Thr Phe Phe Leu Val  
                   20                  25                  30  
 Cys Leu Asn Lys Ala Ile Ser Glu Ala Leu Leu Ser Lys Met Thr Phe  
                   35                  40                  45  
 Leu Ser Phe Phe Lys Thr Asn Leu Leu Leu Leu Glu Thr Phe Cys Thr  
   50                  55                  60  
 Ile  
   65

<210> 440  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 440  
 Leu Leu Gly Val Leu Lys Pro Leu Tyr Phe Ser Val Glu Pro Val Leu  
   1                  5                  10                  15  
 Gly Glu Arg Ser Val Ala Phe Glu Glu Val Arg Glu Lys Asn His Gly  
                   20                  25                  30  
 Thr Ser Gly Phe Leu Ser Leu Tyr Ser Leu Ala Ala Ile Val Cys Gly  
                   35                  40                  45  
 His Leu Met Phe Phe His Thr Leu Leu Gly Arg Gly Gly Asn Asp His  
   50                  55                  60  
 Pro Gly Gln Ser Pro Leu Pro Gly Met Arg Pro Leu Arg Gly Gly Leu  
   65                  70                  75                  80  
 Ala Gly Gln Ala Pro Ser Gly His Pro Trp Met Gln Pro Leu Asp Thr  
                   85                  90                  95  
 Cys Leu Leu

<210> 441  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 441  
 Arg Pro Thr Arg Pro Pro Thr Arg Pro Asp Arg Pro Ser Leu Glu Leu  
   1                  5                  10                  15

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<210> 445



<400> 449



185

Pro His Ala Ile His Ser Gln Lys Pro Ser Ser Ile Phe Leu Ile Thr  
1 5 10 15

Asp Val Phe Pro Asp Pro Pro Val Gly Ile Tyr Leu Leu  
20 25

<210> 450

<211> 15

<212> PRT

<213> Homo sapiens

<400> 450

Thr Arg Pro Thr Met Pro Asn Phe Leu Trp Phe Pro Lys Cys Ala  
1 5 10 15

<210> 451

<211> 35

<212> PRT

<213> Homo sapiens

<400> 451

Arg Asn Ser Leu His Cys Tyr Asn Glu Gln Pro Pro Asn Ala Ser Gly  
1 5 10 15

Leu Ile Gln Trp Ser Ser Asp Leu Ile Pro Ile Ser Leu Gln Cys Gly  
20 25 30

Cys Ser Trp  
35

<210> 452

<211> 15

<212> PRT

<213> Homo sapiens

<400> 452

Ile Arg His Glu Glu Lys Gly Gly Lys Ala Gln Arg Trp Ala Glu  
1 5 10 15

<210> 453

<211> 62

<212> PRT

<213> Homo sapiens

<400> 453

Val Asp Pro Arg Val Arg Leu Pro Leu Phe Trp Trp Gln Pro Ser Cys  
1 5 10 15

Ala Val Tyr Leu Phe Pro Arg Val Tyr Asn Asn Met Cys Thr Arg Val  
20 25 30

Leu Gly Thr Leu Pro His Cys Trp Asp Leu Ala Thr Leu Leu Gln Pro  
35 40 45

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<210> 454
<211> 87
<212> PRT
<213> Homo sapiens
```

Val Gly Tyr Gly Gly Met Ser Val Arg Leu Gln Gly Cys Arg Tyr Val  
20 25 30

Leu Lys Met Val Leu Leu Cys Asn Ser Cys Leu Gly Leu Gly Val Gly  
50 55 60

Thr Pro Gly Ser Ser Val Tyr  
85

```
<210> 455
<211> 29
<212> PRT
<213> Homo sapiens
```

Lys Trp Cys Cys Cys Val Thr Ala Ala Trp Val Leu Gly  
20 25

```
<210> 456
<211> 86
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids
```

Ser Xaa Asp Leu Val Pro Cys Asn Gln Cys Phe Ile Pro Leu Pro Pro



20 25 30

Ser Cys Asn Arg Ile Ala Ser Arg Lys Ala Val Asn Trp Lys Gln Gln  
35 40 45

Arg Leu Pro Ala Val Arg Gly Leu Leu Asn Asn Ala Pro His Arg Arg  
50 55 60

Pro Pro Thr Pro Arg Thr Pro Cys Val Phe Pro Ser Glu Gly Pro Lys  
65 70 75 80

Gly Tyr Gly Phe His Val  
85

<210> 457  
<211> 39  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 457  
Glu Gln Leu Ala Xaa Ile Ser Cys Arg Val Ile Asn Val Ser Phe Arg  
1 5 10 15

Cys Leu His His Val Ile Glu Ser Leu Pro Glu Arg Gln Leu Thr Gly  
20 25 30

Ser Ser Arg Gly Ser Gln Pro  
35

<210> 458  
<211> 73  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 458  
Glu Asp Cys Ser Thr Met Pro Pro Ile Ala Ala Pro Pro Pro Leu Ala  
1 5 10 15

Pro Leu Val Phe Ser Pro Leu Arg Gly Pro Arg Val Met Ala Phe Met  
20 25 30

Ser Arg Cys Gly Asp Arg Gly Gly Arg Gly Arg Ser Xaa Ala Gly Arg  
35 40 45

Gly Trp Pro Trp Ser Glu Ser Gly Val Ile Asn Ala His Pro Lys Lys  
50 55 60



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<210> 462
<211> 47
<212> PRT
<213> Homo sapiens
```



&lt;400&gt; 462

Leu Leu Ser Leu Ile Leu Leu Arg Ile Trp Tyr Asp Phe Ser Lys Gln  
 1 5 10 15

Thr Val Phe Trp Phe Phe Leu Asn Val Phe Asn Phe Phe Ser Ser Cys  
 20 25 30

Asn Asn Asp Gly Ala Cys Ser Tyr Lys Tyr Arg Lys Val Gln Ile  
 35 40 45

&lt;210&gt; 463

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 463

Arg Lys Leu Phe His Lys Ile Asn Ser Lys Ser Phe His Leu Ser Gly  
 1 5 10 15

Met His Ile Leu Ile Ser Val Trp Ile Val Arg Ser Arg Ile Ile Lys  
 20 25 30

Val Lys Tyr Glu Leu Leu Leu Cys Phe Phe Asp Val Ile Phe Tyr Val  
 35 40 45

&lt;210&gt; 464

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 464

Asn Ser Ala Arg Asp Val Phe Phe Thr Gln Lys Ile Leu Tyr Ser Gln  
 1 5 10 15

Thr Cys Ile Phe Phe Pro Cys Leu Val Pro Phe Ser Phe Leu Phe Ser  
 20 25 30

Phe Phe Phe Phe Leu Ser Phe Val Gly  
 35 40

&lt;210&gt; 465

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 465

Met Phe Ser Ser Leu Lys Lys Phe Tyr Ile Leu Lys His Val Tyr Ser  
 1 5 10 15

Phe Pro Val Leu Phe His Phe Leu Phe Phe Leu Phe Ser Phe Ser  
 20 25 30



190

Phe Leu Ser Trp Ala Glu Lys Gly Ala Gly Lys Met Lys Leu Ala Thr  
35 40 45

Glu Asn Cys Lys Met Val Lys Ser  
50 55

<210> 466

<211> 39

<212> PRT

<213> Homo sapiens

<400> 466

Ile Gln Leu Leu Tyr Leu Lys Gly Ala Ala Met Lys Tyr Leu Ser Tyr  
1 5 10 15

Val Ala Arg Leu Leu Phe Leu Lys Ala Leu Asp Leu Phe Ala Pro Lys  
20 25 30

Met Val Gln Ile Asp Ser Phe  
35

<210> 467

<211> 65

<212> PRT

<213> Homo sapiens

<400> 467

Val Asp Pro Arg Val Arg Arg Phe Trp Glu Asp Pro Glu Tyr Pro Pro  
1 5 10 15

Val Ala Val Met Ser Arg Leu Met Leu Arg Arg Ile Pro Thr Val Met  
20 25 30

Ser Asn Thr His Arg Thr Gln Pro Ser Thr Trp Glu Gln Ile Lys Lys  
35 40 45

Leu Ser Gln Met Val Gly Glu Asn Leu Arg Lys Ala Gly Gln Pro Val  
50 55 60

Thr  
65

<210> 468

<211> 25

<212> PRT

<213> Homo sapiens

<400> 468

Val Arg Arg Phe Trp Glu Asp Pro Glu Tyr Pro Pro Val Ala Val Met  
1 5 10 15

Ser Arg Leu Met Leu Arg Arg Ile Pro  
20 25

059333-1000



<210> 469  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 469  
 Ser Asn Thr His Arg Thr Gln Pro Ser Thr Trp Glu Gln Ile Lys Lys  
   1                  5                  10                  15  
 Leu Ser Gln Met Val Gly Glu Asn Leu Arg Lys  
                   20                  25

<210> 470  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<400> 470  
 Ser Ala Cys His Ser His Thr Val Phe Asn Trp Ser Glu Gln Asn Gly  
   1                  5                  10                  15  
 Gln Met Val Gln Met Val Arg Arg Met Ala Arg Val Pro Ile Ile Trp  
                   20                  25                  30  
 Asn His Gly Ser Ile Gly Ala Pro Gln Pro Gln Met Ile Trp Pro Ile  
                   35                  40                  45  
 Val Gly Ala Lys His Lys Asp Leu Trp Gln Leu Leu Ile Ala Leu Asn  
                   50                  55                  60  
 Lys Ile Lys Ile Trp Glu Arg Ile Lys Lys His Leu Glu Gly His Ser  
   65                  70                  75                  80  
 Ala Asn Leu Ser Leu Asp Ile Ala Lys Tyr Ile Tyr Ile Phe Lys Ala  
                   85                  90                  95  
 Ser Gln Ala His Leu Thr Leu Met Pro Glu Leu Glu Cys Ser Lys Glu  
                   100                  105                  110  
 Leu Gln Thr Asp  
                   115

<210> 471  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 471  
 Met Ala Arg Val Pro Ile Ile Trp Asn His Gly Ser Ile Gly Ala Pro  
   1                  5                  10                  15  
 Gln Pro Gln Met Ile Trp Pro Ile Val  
                   20                  25

100T0T"923E2660



<210> 472  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 472  
 Arg Ile Lys Lys His Leu Glu Gly His Ser Ala Asn Leu Ser Leu Asp  
   1                  5                  10                  15  
 Ile Ala Lys Tyr Ile Tyr Ile Phe Lys Ala Ser Gln Ala His Leu Thr  
                   20                  25                  30

<210> 473  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 473  
 Val Phe Leu Gln Gln Gly Leu Thr Gln Arg Ser Val Ile Leu Ile Gly  
   1                  5                  10                  15  
 His Ile Cys Gln Phe Trp Leu Ala Ile Met Pro Gly Tyr Asn His Phe  
                   20                  25                  30  
 Met Thr Gln Leu His Met Leu Ser Gly Leu Asn Ile Tyr His Asn Lys  
                   35                  40                  45  
 Ser Ala Pro Ile Ile Glu Ala Tyr His Pro Gln Lys Ser Ile Cys Lys  
                   50                  55                  60  
 Gln Asn  
   65

<210> 474  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 474  
 Ile Gly His Ile Cys Gln Phe Trp Leu Ala Ile Met Pro Gly Tyr Asn  
   1                  5                  10                  15  
 His Phe Met Thr Gln Leu His Met Leu Ser Gly Leu  
                   20                  25

<210> 475  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 475  
 Ser Ile Pro Gly Thr Pro Asp Leu Asn Ala Arg Thr Gly Val Leu Glu



[illegible]

```
<400> 476
Val Leu Glu Gly Ala Ala Asp Arg Leu Ala Ala Ser Asn Pro Leu Lys
  1                               10                          15
Trp Ile Lys Thr Leu Arg Ser Ser Val Ile Ser
      20                      25
```

```

<400> 477
Leu Thr Val Thr Lys Leu Pro Trp Leu Phe Ile Ala Leu Gln Asn Lys
  1              5              10              15

Arg Met Gly Thr Ser Trp Glu Gln Ala Pro Lys Ser Gly His Lys Leu
          20              25              30

Ala Pro Lys Leu Val Ile Asn Lys Ile Ser Ala Ala Leu Ser His Ala
          35              40              45

Cys Asp Ser Leu Thr Pro Thr Leu Glu Gly Cys Arg Phe Thr Gly Met
  50              55              60

Arg Ala Arg Asn Asn Trp Pro Thr Gln Gly Gly
  65              70              75

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```

<400> 478
Met Gly Thr Ser Trp Glu Gln Ala Pro Lys Ser Gly His Lys Leu Ala
 1          5          10          15

Pro Lys Leu Val Ile Asn Lys Ile Ser Ala Ala Leu Ser
      20          25

```



```

<400> 479
Ser Thr His Ala Ser Val Gln Lys Lys Asp Leu Thr Lys Phe Ser Ala
  1                      5                      10                      15

His Ser Trp Leu Lys Lys Lys Lys Thr Phe Arg Lys Met Ile Met Glu
          20                      25                      30

Glu Ile Phe Leu Asn Leu Ile Lys Asn Ile Tyr Lys Ser Pro Tyr Ser
          35                      40                      45

Gln Cys Asn Thr
    50

```

```
<400> 480
Val Arg Ser Glu Lys Gly Phe Asp Lys Ile Gln Cys Pro Phe Met Val
  1             5             10             15
Lys
```

```

<400> 481
Phe Ser Lys Pro Ser Ser Tyr Lys Thr Tyr Ile Pro Lys Ile Asn Leu
  1             5             10             15
His Phe Tyr Ile Leu Leu Met Asn Ile Trp Glu Thr Ile Lys Ile Val
      20             25             30
Pro Leu Asn Asn Cys Phe Thr Lys Met Asn Tyr Leu Gly Ile
      35             40             45

```

<400> 482  
Lys Lys Glu Thr Lys Leu Ser Leu Phe Ala Asn Asp Met Ile



1                      5                      10

```
<210> 486
<211> 69
<212> PRT
```



<213> Homo sapiens

<400> 486

Ser Thr Ser Val Cys Ile Cys Thr Cys Ala His Thr His Val Tyr Ile  
1 5 10 15

Phe Ile Tyr Leu His Thr His Tyr Ile Cys Ile His Thr Ile Tyr Val  
20 25 30

Lys Tyr Asn Ile Cys Ile Met His Ile Asn Ser Asn Lys Cys Ile Cys  
35 40 45

Val Ile Phe Lys Ile Glu Gln Leu Tyr Leu Glu Val Val Asn Ala Glu  
50 55 60

Asn Trp Phe Tyr Cys  
65

<210> 487

<211> 31

<212> PRT

<213> Homo sapiens

<400> 487

Ile His Thr Ile Tyr Val Lys Tyr Asn Ile Cys Ile Met His Ile Asn  
1 5 10 15

Ser Asn Lys Cys Ile Cys Val Ile Phe Lys Ile Glu Gln Leu Tyr  
20 25 30

<210> 488

<211> 9

<212> PRT

<213> Homo sapiens

<400> 488

Asn Ser Ala Val Thr Val Gln Met Ala  
1 5

<210> 489

<211> 24

<212> PRT

<213> Homo sapiens

<400> 489

Lys Tyr Leu Val Ser Ser Val Leu Pro Thr Ile Ser Met Ala Arg Ser  
1 5 10 15

Leu Ile Ser Ala Leu Arg Ser Gly  
20

<210> 490

<211> 43



Ser



<210> 497  
<211> 38



<213> Homo sapiens

Gly Val Tyr Ile Asp Phe Pro Gly Gly Ile Leu Ser Phe Tyr Gly Val  
1 5 10 15

Glu Tyr Asp Ser Met Thr Leu Val His Lys Phe Ala Cys Lys Phe Ser  
20 25 30

Glu Pro Val Tyr Ala Ala  
35

<213> Homo sapiens

Gly Thr Val Ser Arg Glu Arg Arg Ala Gly  
1 5 10

<213> Homo sapiens

His Gly Asp Pro Thr Gln Ser Trp Pro Phe Leu Glu Leu Gly Val Tyr  
1 5 10 15

Ile Asp Phe Pro Gly Gly Ile Leu Ser Phe Tyr Gly Val Glu Tyr Asp  
20 25 30

Ser Met Thr Leu Val His Lys Phe Ala Cys Lys Phe Ser Glu Pro Val  
35 40 45

Tyr Ala Ala Phe Trp Leu Ser Lys Lys Glu Asn Ala Ile Arg Ile Val  
50 55 60

Asp Leu Gly Glu Glu Pro Glu Lys Pro Ala Pro Ser Leu Val Gly Thr  
65 70 75 80

Ala Pro

<213> Homo sapiens

Ser Phe Tyr Gly Val Glu Tyr Asp Ser Met Thr Leu Val His Lys Phe  
1 5 10 15



```

<210> 501
<211> 337
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (278)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (284)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 501
Ala Glu Leu Gln Cys Thr Gln Leu Asp Leu Glu Arg Lys Leu Lys Leu
 1             5             10             15

Asn Glu Asn Ala Ile Ser Arg Leu Gln Ala Asn Gln Lys Ser Val Leu
      20             25             30

Val Ser Val Ser Glu Val Lys Ala Val Ala Glu Met Gln Phe Gly Glu
      35             40             45

Leu Leu Ala Ala Val Arg Lys Ala Gln Ala Asn Val Met Leu Phe Leu
      50             55             60

Xaa Glu Lys Glu Gln Ala Ala Leu Ser Gln Ala Asn Gly Ile Lys Ala
      65             70             75             80

```



201

His Leu Glu Tyr Lys Ser Ala Glu Met Glu Lys Ser Lys Gln Glu Leu  
85 90 95

Glu Thr Met Ala Ala Ile Ser Asn Thr Val Gln Phe Leu Glu Glu Tyr  
100 105 110

Cys Lys Phe Lys Asn Thr Glu Asp Ile Thr Phe Pro Ser Val Tyr Ile  
115 120 125

Gly Leu Lys Asp Lys Leu Ser Gly Ile Arg Lys Val Ile Thr Glu Ser  
130 135 140

Thr Val His Leu Ile Xaa Xaa Leu Glu Asn Tyr Lys Lys Lys Leu Gln  
145 150 155 160

Glu Phe Ser Lys Glu Glu Glu Tyr Asp Ile Arg Thr Gln Val Ser Ala  
165 170 175

Xaa Val Gln Arg Lys Tyr Trp Thr Ser Lys Pro Glu Pro Ser Thr Arg  
180 185 190

Glu Gln Phe Leu Gln Tyr Val Xaa Asp Ile Thr Phe Asp Pro Asp Thr  
195 200 205

Ala His Lys Tyr Leu Arg Leu Gln Glu Glu Asn Arg Lys Val Thr Asn  
210 215 220

Thr Thr Pro Trp Glu His Pro Tyr Pro Asp Leu Pro Ser Arg Phe Leu  
225 230 235 240

His Trp Arg Gln Val Leu Ser Gln Gln Ser Leu Tyr Leu His Arg Tyr  
245 250 255

Tyr Phe Glu Val Glu Ile Phe Gly Ala Gly Thr Tyr Val Gly Leu Thr  
260 265 270

Cys Lys Gly Ile Asp Xaa Lys Gly Glu Glu Arg Xaa Ser Cys Ile Ser  
275 280 285

Gly Asn Asn Phe Ser Trp Ser Leu Gln Trp Asn Gly Lys Glu Phe Thr  
290 295 300

Ala Trp Tyr Ser Asp Met Glu Thr Pro Leu Lys Ala Gly Pro Phe Trp  
305 310 315 320

Ser Ser Gly Ser Ile Leu Thr Ser Gln Glu Gly Ser Phe Pro Ser Met  
325 330 335

Ala

<210> 502  
<211> 301  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (166)



$\langle 220 \rangle$ 

$\langle 222 \rangle$  (172)

 $\langle 220 \rangle$  $\langle 222 \rangle$  (250) $\langle 220 \rangle$ 

<222> (299)

<220>

$\langle 222 \rangle$  (300)

<400> 502

Phe Arg Asp Pro Ile Gly Phe Gln Lys Pro Ala Thr Ile Ser Ser Tyr  
20 25 30

Phe Cys Pro Gln Ile Thr Leu Lys Cys Lys Ser His His Cys Ser Trp  
35 40 45

Gln Arg Ser Gly Ile Trp Leu Leu Glu Ser Arg Glu Gln Ser Pro Pro  
50 55 60

Arg Thr Val Leu Ala Ser Arg Val Pro Leu Pro Asp Leu Gln Ser Gly  
65 70 75 80

Trp Arg Phe Pro Ser Trp Lys Ala Arg Arg Gln His Arg Leu Val Leu  
85 90 95

Lys Thr Cys Arg Gln Thr Cys Glu Pro Glu Ser Trp Asn His Thr Leu  
100 105 110

Arg His Arg Arg Lys Gly Ser Leu Leu Gly Ser Gln Tyr Arg Pro Arg  
115 120 125

Ala Pro Glu Arg Ala Ser Phe Glu Trp Gly Leu His Val Thr Val Pro  
130 135 140

Gly Arg Glu Leu Leu Pro Val Pro Leu Glu Ala Pro Gly Glu Val Val  
145 150 155 160

Ser Gly Asn Ala Thr Xaa Ala Leu Leu Pro Phe Xaa Val Asp Ala Phe  
165 170 175

Ala Gly Gln Ala Asn Ile Gly Ala Cys Pro Glu Asp Leu His Leu Lys  
180 185 190

Ile Val Pro Val Gln Val Gln Thr Leu Leu Gly Gln His Leu Pro Pro  
195 200 205



Val Gln Glu Pro Ala Gly Glu Val Arg Val Gly Met Leu Pro Gly Arg  
210 215 220

Gly Val Gly Asp Leu Ala Val Leu Leu Leu Gln Pro Glu Ile Leu Val  
225 230 235 240

Cys Cys Val Arg Val Glu Arg Asp Val Xaa His Ile Leu Glu Glu Leu  
245 250 255

Phe Pro Gly Ala Gly Leu Arg Phe Gly Ser Pro Ile Phe Ala Leu Asn  
260 265 270

Asn Gly Arg His Leu Ser Ser Asp Val Ile Leu Leu Phe Leu Gly Lys  
275 280 285

Leu Leu Glu Leu Phe Leu Ile Val Leu Gln Xaa Xaa Asp  
290 295 300

<210> 503

<211> 196

<212> PRT

<213> Homo sapiens

<400> 503

Ser Lys Ile Lys Tyr Asp Trp Tyr Gln Thr Glu Ser Gln Val Val Ile  
1 5 10 15

Thr Leu Met Ile Lys Asn Val Gln Lys Asn Asp Val Asn Val Glu Phe  
20 25 30

Ser Glu Lys Glu Leu Ser Ala Leu Val Lys Leu Pro Ser Gly Glu Asp  
35 40 45

Tyr Asn Leu Lys Leu Glu Leu Leu His Pro Ile Ile Pro Glu Gln Ser  
50 55 60

Thr Phe Lys Val Leu Ser Thr Lys Ile Glu Ile Lys Leu Lys Lys Pro  
65 70 75 80

Glu Ala Val Arg Trp Glu Lys Leu Glu Gly Gln Gly Asp Val Pro Thr  
85 90 95

Pro Lys Gln Phe Val Ala Asp Val Lys Asn Leu Tyr Pro Ser Ser Ser  
100 105 110

Pro Tyr Thr Arg Asn Trp Asp Lys Leu Val Gly Glu Ile Lys Glu Glu  
115 120 125

Glu Lys Asn Glu Lys Leu Glu Gly Asp Ala Ala Leu Asn Arg Leu Phe  
130 135 140

Gln Gln Ile Tyr Ser Asp Gly Ser Asp Glu Val Lys Arg Ala Met Asn  
145 150 155 160

Lys Ser Phe Met Glu Ser Gly Gly Thr Val Leu Ser Thr Asn Trp Ser  
165 170 175

Asp Val Gly Lys Arg Lys Val Glu Ile Asn Pro Pro Asp Asp Met Glu







09233-1001  
TOT "SAGE" 660

205

35	40	45
Cys Gln Arg Ala Tyr Cys His Ile Leu Leu Gly Asn Tyr Cys Val Ala		
50	55	60
Val Ala Asp Ala Lys Lys Ser Leu Glu Leu Asn Pro Asn Asn Ser Thr		
65	70	75 80
Ala Met Leu Arg Lys Gly Ile Cys Glu Tyr His Glu Lys Asn Tyr Ala		
85	90	95
Ala Ala Leu Glu Thr Phe Thr Glu Gly Gln Lys Leu Asp Ser Ala Asp		
100	105	110
Ala Asn Phe Ser Val Trp Ile Lys Arg Cys Gln Glu Ala Gln Asn Gly		
115	120	125
Ser Glu Ser Glu Val Val Ser Pro Lys Phe Ser Phe Phe Met Phe Leu		
130	135	140
Leu Phe		
145		

<210> 507  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 507
Leu Glu Glu Leu Thr Lys Ala Leu Glu Gln Lys Pro Asp Asp Ala Gln
1 5 10 15

Tyr Tyr Cys Gln Arg Ala Tyr Cys His Ile Leu Leu Gly Asn Tyr Cys
20 25 30

Val Ala Val Ala Asp Ala
35

<210> 508  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 508
Ala Met Leu Arg Lys Gly Ile Cys Glu Tyr His Glu Lys Asn Tyr Ala
1 5 10 15

Ala Ala Leu Glu Thr Phe Thr Glu Gly Gln Lys Leu Asp Ser Ala
20 25 30

<210> 509  
<211> 37  
<212> PRT  
<213> Homo sapiens



&lt;400&gt; 509

Leu Arg Leu Trp Asn Arg Asn Gln Met Met His Ser Ile Ile Val Lys  
 1 5 10 15

Glu Leu Ile Val Thr Phe Phe Leu Gly Ile Thr Val Leu Leu Leu Leu  
 20 25 30

Met Gln Arg Ser Leu  
 35

&lt;210&gt; 510

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 510

Asn Ser Ile Gln Ile Ile Pro Leu Leu Cys  
 1 5 10

&lt;210&gt; 511

&lt;211&gt; 228

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 511

Tyr Met His Phe Asn Asn Thr Val Ala Lys Leu Thr Cys Lys Asn Leu  
 1 5 10 15

Ser Leu Ser Thr Tyr Gln Asn Gln Ser Ala Ser Gln Trp Thr His Gln  
 20 25 30

Ser Lys Ile Lys Tyr Asp Trp Tyr Gln Thr Glu Ser Gln Val Val Ile  
 35 40 45

Thr Leu Met Ile Lys Asn Val Gln Lys Asn Asp Val Asn Val Glu Phe  
 50 55 60

Ser Glu Lys Glu Leu Ser Ala Leu Val Lys Leu Pro Ser Gly Glu Asp  
 65 70 75 80

Tyr Asn Leu Lys Leu Glu Leu Leu His Pro Ile Ile Pro Glu Gln Ser  
 85 90 95

Thr Phe Lys Val Leu Ser Thr Lys Ile Glu Ile Lys Leu Lys Lys Pro  
 100 105 110

Glu Ala Val Arg Trp Glu Lys Leu Glu Gly Gln Gly Asp Val Pro Thr  
 115 120 125

Pro Lys Gln Phe Val Ala Asp Val Lys Asn Leu Tyr Pro Ser Ser Ser  
 130 135 140

Pro Tyr Thr Arg Asn Trp Asp Lys Leu Val Gly Glu Ile Lys Glu Glu  
 145 150 155 160

Glu Lys Asn Glu Lys Leu Glu Gly Asp Ala Ala Leu Asn Arg Leu Phe  
 165 170 175

TOP SECRET







&lt;400&gt; 515

Lys Gln Phe Val Ala Asp Val Lys Asn Leu Tyr Pro Ser Ser Ser Pro  
 1 5 10 15

Tyr Thr Arg Asn Trp Asp Lys Leu  
 20

&lt;210&gt; 516

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 516

Ser Ile Leu Pro Val Glu Met Ala Ala Ala Val Ala Gly Met Leu Arg  
 1 5 10 15

Gly Gly Leu Leu Pro Gln Ala Gly Arg Leu Pro Thr Leu Gln Thr Val  
 20 25 30

Arg Tyr Gly Ser Lys Ala Val Thr Arg His Arg Arg Val  
 35 40 45

&lt;210&gt; 517

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 517

Ala Gly Met Leu Arg Gly Gly Leu Leu Pro Gln Ala Gly Arg Leu Pro  
 1 5 10 15

Thr Leu Gln Thr Val Arg Tyr Gly Ser Lys  
 20 25

&lt;210&gt; 518

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 518

Asp Cys Asn Arg Asp Tyr His Lys Ala Phe Gly Asn Leu Arg Ser Pro  
 1 5 10 15

Gly Trp Pro Asp Asn Tyr Asp Asn Asp Xaa Asp Cys Xaa Val Thr Leu

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20

25

30

Thr Ala Pro Gln Asn His His Ser Gly Ile Val Glu Asn Ala Glu Thr  
           35                          40                          45

Ile Ser Trp Arg  
           50

&lt;210&gt; 519

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 519

Phe Gly Asn Leu Arg Ser Pro Gly Trp Pro Asp Asn Tyr Asp Asn  
       1                          5                          10                          15

&lt;210&gt; 520

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 520

Ala Pro Gln Asn His Xaa Leu Lys Cys Arg Asn Asp Phe Leu Glu Val  
       1                          5                          10                          15

&lt;210&gt; 521

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 521

Ala Ser Phe Tyr Arg Thr Ser  
       1                          5

&lt;210&gt; 522

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 522

Met Gly Glu Ser Glu Cys Tyr Arg Arg Leu Ser Gly Ala Ser Cys Thr  
       1                          5                          10                          15

Trp Thr Val His Val Asp Phe Ala

TOPOT "GAGGAGG







<213> Homo sapiens

<400> 526

Met Cys Val Thr Arg Met His Val Lys Cys Pro Pro Pro Ser Ala Ser  
1 5 10 15

Val Thr Ala Val Lys Trp Pro Leu Ser Trp Ser Ser Ser Ser Phe Cys  
20 25 30

Ile Ser Leu His Ala Gly Arg His  
35 40

<210> 527

<211> 36

<212> PRT

<213> Homo sapiens

<400> 527

Glu Glu Arg Asn Lys Asn His Leu Ser Cys Gln Gly Leu Ser Thr Ile  
1 5 10 15

Cys Cys Ser Tyr Leu Ser Ser Lys Gly Glu His Leu Arg Asn Leu Ser  
20 25 30

Pro Tyr Ser Phe  
35

<210> 528

<211> 46

<212> PRT

<213> Homo sapiens

<400> 528

Gly Leu Cys Met Val His Ser Leu Leu Thr Ser Ser Leu Gly Gly Arg  
1 5 10 15

Cys Cys Asn Tyr Pro Tyr Ile Ala Asp Lys Asp Ile Glu Thr Glu Val  
20 25 30

Lys Pro Pro Ser Gln Gly His Thr Trp His Leu His Cys Ser  
35 40 45

<210> 529

<211> 75

<212> PRT

<213> Homo sapiens

<400> 529

Gln Leu Trp Cys Ile Thr Ala Leu Pro Ser Thr Arg His Cys Ser Lys  
1 5 10 15

Gly Phe Ala Trp Phe Thr His Ser Leu Arg His Pro Ser Val Ala Gly  
20 25 30

Ala Val Ile Ile Leu Ile Leu Gln Thr Arg Thr Leu Arg Gln Arg Ser



212

35

40

45

Ser His Leu Pro Lys Gly Thr His Gly Ile Cys Thr Ala Pro Asp Arg  
50 55 60

Pro Thr Glu Arg Ala Ala Val Thr Ile Leu Lys  
65 70 75

<210> 530

<211> 39

<212> PRT

<213> Homo sapiens

<400> 530

Ser Phe Asp Asn Asn Asn Ser Tyr Gly Val Ser Gln Leu Tyr Gln Val  
1 5 10 15

Pro Asp Thr Val Leu Arg Ala Leu His Gly Ser Leu Thr Pro Tyr Val  
20 25 30

Ile Pro Arg Trp Gln Val Leu  
35

<210> 531

<211> 38

<212> PRT

<213> Homo sapiens

<400> 531

Asp Arg Gly Gln Ala Thr Phe Pro Arg Ala His Met Ala Ser Ala Leu  
1 5 10 15

Leu Leu Thr Asp Arg Gln Arg Glu Leu Leu Ser Arg Ser Ser Asn Glu  
20 25 30

Leu Cys Met Ser Lys Val  
35

<210> 532

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 532

Leu Leu Leu Ile Leu Arg Pro Phe Leu Asn Ser Gln Phe Lys Leu Gln  
1 5 10 15

Leu Pro Leu Val Leu Phe His Ser Ser Cys Thr Tyr Ile Cys Leu Leu  
20 25 30



213

Tyr Asn Tyr Glu Leu Phe His Ile Val Ala Leu Thr Gly Lys Leu Met  
35 40 45

Asn Leu Gly Leu His Leu Phe Ala His His Leu Ile Leu Ala Val Ala  
50 55 60

His Xaa Gly Cys Ser Ile Pro Ile Tyr  
65 70

<210> 533

<211> 37

<212> PRT

<213> Homo sapiens

<400> 533

Thr His Asn Ser Asn Tyr Ser Ser Leu Trp Phe Ser Ser Thr Ala Val  
1 5 10 15

Val Leu Thr Tyr Val Tyr Tyr Ile Ile Met Asn Cys Phe Ile Leu Ser  
20 25 30

Pro Leu Gln Val Asn  
35

<210> 534

<211> 187

<212> PRT

<213> Homo sapiens

<400> 534

Ala Lys Asn Ser Gln Lys Glu Glu Asn Pro Glu His Val Glu Ile Gln  
1 5 10 15

Lys Met Met Asp Ser Leu Phe Leu Lys Leu Asp Ala Leu Ser Asn Phe  
20 25 30

His Phe Ile Pro Lys Pro Pro Val Pro Glu Ile Lys Val Val Ser Asn  
35 40 45

Leu Pro Ala Ile Thr Met Glu Glu Val Ala Pro Val Ser Val Ser Asp  
50 55 60

Ala Ala Leu Leu Ala Pro Glu Glu Ile Lys Glu Lys Asn Lys Ala Gly  
65 70 75 80

Asp Ile Lys Thr Ala Ala Glu Lys Thr Ala Thr Asp Lys Lys Arg Glu  
85 90 95

Arg Arg Lys Lys Lys Tyr Gln Lys Arg Met Lys Ile Lys Glu Lys Glu  
100 105 110

Lys Arg Arg Lys Leu Leu Glu Lys Ser Ser Val Asp Gln Ala Gly Lys  
115 120 125

Tyr Ser Lys Thr Val Ala Ser Glu Lys Leu Lys Gln Leu Thr Lys Thr  
130 135 140

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150

155

165

180

<211> 51

<213> Homo sapiens

1

20

35

50

<211> 29

<213> Homo sapiens

1

20

<211> 28

<213> Homo sapiens

1

20

<211> 13



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<400> 542
Leu Gln Asp Glu Gly Lys Asp Lys Ala Leu Lys Ser Ser Gln Ala Phe
  1             5             10             15

Phe Ser Lys Leu Gln Asp Gln Val Lys Met Gln Ile Asn Asp Ala Lys
      20             25             30

Lys Thr Glu

```



35

<210> 543  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 543  
 Val Lys Pro Pro Asp Gln Ser Cys Asn His Trp Arg Asp Glu Gln Cys  
           1                  5                  10                  15

Leu Val

<210> 544  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 544  
 Met Leu Tyr Leu Ile Leu Ile Ser Leu Ser Ser Leu Ser Phe Ser Phe  
           1                  5                  10                  15

Ser Leu Pro Pro Phe Ser Ile Ile Ile  
                   20                  25

<210> 545  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 545  
 Ser Ser Tyr Phe Leu Arg His Phe Arg Ile Tyr His Thr Cys Pro Lys  
           1                  5                  10                  15

Tyr Phe Ser Met Asn Ile Ile Asn  
                   20

<210> 546  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 546  
 Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val  
           1                  5                  10                  15

Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala  
                   20                  25                  30

Arg Asp Ser Leu Pro Asn Ser Thr Met Met Phe Tyr Tyr Ala Cys Phe  
           35                  40                  45

TOPP-862650



[illegible]

Val Gln Pro Asp Val Ile Ser Lys Thr Ser Ile Met Leu Gly Leu Gly  
35 40 45



Glu Asn Asp Glu Gln Val Tyr Ala Thr Met Lys Gly Lys Glu Ile Glu  
 50 55 60

Lys  
 65

<210> 551  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 551  
 Gln Gln Ser Cys Cys Phe Pro Val Arg Phe Val Ile Leu Gly Pro Ile  
 1 5 10 15

Leu Ile Ser Pro Tyr Val Tyr  
 20

<210> 552  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 552  
 Met Phe Tyr Ser Lys Ile Phe Tyr Phe Leu Leu Leu Asn Ser Asp Thr  
 1 5 10 15

Ser Asn Asn Val Thr Ser Lys Thr Leu Val Ser Ser Ile Ser Ser Ser  
 20 25 30

Asn Asn Arg Leu Ala Val Ser Ile Val Phe  
 35 40

<210> 553  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 553  
 Ser Arg Gln Lys Asn Leu Leu Lys Leu His Ser Asn Pro Asn Cys Asp  
 1 5 10 15

Asn Phe Cys Phe Ile Phe Asn Tyr Lys Pro Lys Tyr Ile Cys Ile Phe  
 20 25 30

Lys Leu Ile Cys Leu Lys Ile Leu Leu Tyr Ile Phe Gly Ser Gly  
 35 40 45

<210> 554  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

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<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 554  
 Met Leu Leu Ser Leu Leu Met Val Phe Thr Ser Glu Leu Tyr Val Lys  
           1                  5                  10                  15  
 Arg His Ile Ser Phe Lys Ser Xaa Asp Lys Pro His Cys His Lys Asn  
                   20                  25                  30  
 Gln Asp Ile Asp Val Leu Phe Arg Lys Leu Leu Glu Lys His Phe Lys  
                   35                  40                  45  
 Val Ile Asn Met Ile Cys Phe Pro  
           50                  55

<210> 555  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 555  
 Phe Arg Glu Tyr Gly Phe Tyr Asn Leu His Phe Cys  
           1                  5                  10

<210> 556  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 556  
 Leu Val Thr Thr Asp Tyr Tyr Asp Gly Cys Asn Glu Asp Tyr Glu Tyr  
           1                  5                  10                  15  
 Asn Trp Ser Tyr Met Phe Leu Asn Ser Glu Gln Leu Phe Ile Lys Phe  
                   20                  25                  30  
 Tyr Pro Thr Phe Phe Cys  
           35

<210> 557  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 557  
 Asn Val Ile Ala Pro Gly Leu Glu Ser Ser Cys Ala Asn Ser Leu Phe  
           1                  5                  10                  15  
 Leu Leu Phe Val Cys Leu Pro Val Ala His His Arg His Asn Phe Leu  
                   20                  25                  30

0993278-1001



Phe Ile Lys His Ser Leu Tyr Asn His Leu Arg Asp Tyr Glu Ser Asp  
           35                          40                          45

Phe Asp Lys Ile  
           50

<210> 558

<211> 82

<212> PRT

<213> Homo sapiens

<400> 558

Leu Asn Ile Asp Ser Phe Asp Tyr Gly Lys Phe Glu Ser Leu Leu Ala  
       1                          5                          10                          15

Lys Gln His Tyr Lys Phe Ser Phe Leu Leu Pro Leu Ala Ala Gly Thr  
                           20                          25                          30

Glu Arg Cys Lys Trp Trp Leu Lys Ile Glu Glu Ala Ser Ser Asp Gln  
                           35                          40                          45

Cys Gly Cys Trp Phe Leu Val Lys Cys Val Pro Lys Pro Pro Ser Pro  
           50                          55                          60

Cys Arg Gln Pro Pro Thr Gln Val Ser Lys Ile Gly His Ala Pro Phe  
       65                          70                          75                          80

Phe Leu

<210> 559

<211> 52

<212> PRT

<213> Homo sapiens

<400> 559

Gln Glu Phe Gln Thr Gly Leu Gly Asn Met Val Lys Pro Cys Leu Tyr  
       1                          5                          10                          15

Glu Lys Tyr Arg Asn Ile Ser Trp Leu Trp Trp His Thr Pro Val Val  
                           20                          25                          30

Pro Ala Thr Trp Glu Ala Glu Val Gly Gly Ser Leu Glu Pro Gly Arg  
           35                          40                          45

Leu Arg Leu Gln  
       50

<210> 560

<211> 65

<212> PRT

<213> Homo sapiens

<400> 560

Ile Leu Gly Gly Glu Ser Ile Leu Ile Leu Ser Trp Val Phe Ser Tyr

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0997229-10001

221

1 5 10 15

Ile Phe Phe Arg Ile Ala Leu Glu Ile Thr Ile Tyr Ile Leu Asn Val  
20 25 30

Ser Pro Phe Cys Leu Gly Arg Trp Leu Met Pro Val Ile Pro Ala Leu  
35 40 45

Trp Glu Ala Glu Val Gly Gly Leu Pro Glu Leu Arg Ser Ser Arg Pro  
50 55 60

Ala  
65

<210> 561  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 561  
Val Leu Cys Glu Glu Ala Gly Gln Lys Val Pro Ser Thr Pro Ser Trp  
1 5 10 15

Ser Ser Trp Thr Leu Gln Lys Arg Leu Arg Gly Ser Pro Ala Glu Ala  
20 25 30

Asn Cys Ser Pro Ser Phe Pro Ala Pro Pro Gly Lys Glu  
35 40 45

<210> 562  
<211> 103  
<212> PRT  
<213> Homo sapiens

<400> 562  
Met Ser Leu Ser Ala Leu Ala Cys Asp Phe Thr Pro Ile Gln Pro Trp  
1 5 10 15

Glu Trp Glu Glu Tyr Glu Gln Ile Thr Leu Gly Leu Thr Ala Pro Ser  
20 25 30

Asn Leu Leu Glu Ser Asn Tyr Leu Gly Gln Ala Ser Glu Cys Phe Val  
35 40 45

Arg Lys Leu Val Arg Arg Phe Pro Gln Leu Leu Pro Gly Pro Pro Gly  
50 55 60

His Cys Arg Lys Asp Leu Gly Asp Pro Gln Gln Arg Pro Ile Ala Leu  
65 70 75 80

Leu Pro Ser Leu Pro His Gln Glu Arg Asn Asn Val His Arg Leu Glu  
85 90 95

Ala Asp Ser Glu Val Asp Leu  
100



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<400> 565
Xaa Leu Trp Asp Pro Gly Leu Pro Gly Val Cys Arg Cys Gly Ser Ile
  1                      5                      10                      15
Val Leu Lys Ser Ala Phe Ser Val Gly Ile Thr Thr Ser Tyr Pro Glu
                      20                      25                      30
Xaa Arg Leu Pro Ile Ile Phe Asn Lys Val Leu Leu Pro Arg Gly Xaa
      35                      40                      45

```



Ala Leu Gln Pro Cys His Arg Gly Ser Ser Ser Val Leu Ser Gln Gly  
50 55 60

Ile Tyr Tyr Phe Ser Tyr Asp Ile Thr Leu Ala Asn Lys His Leu Ala  
65 70 75 80

Ile Gly Leu Val His Asn Gly Gln Tyr Arg Ile Lys Thr Phe Asp Ala  
85 90 95

Asn Thr Gly Asn His Asp Val Ala Ser Gly Ser Thr Val Ile Tyr Leu  
100 105 110

Gln Pro Glu Asp Glu Val Trp Leu Glu Ile Phe Phe Thr Asp Gln Asn  
115 120 125

Gly Leu Phe Ser Asp Pro Gly Trp Ala Asp Ser Leu Phe Ser Gly Phe  
130 135 140

Leu Leu Tyr Val Asp Thr Asp Tyr Leu Asp Ser Ile Ser Glu Asp Asp  
145 150 155 160

Glu Leu

<210> 566

<211> 15

<212> PRT

<213> Homo sapiens

<400> 566

Gly Ser Ile Val Leu Lys Ser Ala Phe Ser Val Gly Ile Thr Thr  
1 5 10 15

<210> 567

<211> 14

<212> PRT

<213> Homo sapiens

<400> 567

Gly Ile Tyr Tyr Phe Ser Tyr Asp Ile Thr Leu Ala Asn Lys  
1 5 10

<210> 568

<211> 13

<212> PRT

<213> Homo sapiens

<400> 568

Asp Ser Leu Phe Ser Gly Phe Leu Leu Tyr Val Asp Thr  
1 5 10

<210> 569



<211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 569  
 Asn His Asp Val Ala Ser Gly Ser Thr Val Ile Tyr Leu  
           1                          5                          10

<210> 570  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 570  
 Ile Thr Pro Leu Gly Leu Gly Ala Ala Asp  
           1                          5                          10

<210> 571  
 <211> 149  
 <212> PRT  
 <213> Homo sapiens

<400> 571  
 Thr Leu Arg Val Leu Gly Lys Val Pro Ala Val Cys Pro Trp Cys Ala  
           1                          5                          10                          15  
 Leu Trp Arg Lys Ala Gly Met Asp Met Thr Tyr Ser Trp Leu Ser Arg  
                           20                          25                          30  
 Gly Asp Ser Thr Tyr Thr Phe His Glu Gly Pro Val Leu Ser Thr Ser  
                           35                          40                          45  
 Trp Arg Pro Gly Asp Ser Ala Leu Ser Tyr Thr Cys Arg Ala Asn Asn  
           50                          55                          60  
 Pro Ile Ser Asn Val Ser Ser Cys Pro Ile Pro Asp Gly Pro Phe Tyr  
           65                          70                          75                          80  
 Ala Asp Pro Asn Tyr Ala Ser Glu Lys Pro Ser Thr Ala Phe Cys Leu  
                           85                          90                          95  
 Leu Ala Lys Gly Leu Leu Ile Phe Leu Leu Leu Val Ile Leu Ala Met  
                           100                          105                          110  
 Gly Leu Trp Val Ile Arg Val Gln Lys Arg His Lys Met Pro Arg Met  
           115                          120                          125  
 Lys Lys Leu Met Arg Asn Arg Met Lys Leu Arg Lys Glu Ala Lys Pro  
           130                          135                          140  
 Gly Ser Ser Pro Ala  
 145

<210> 572  
 <211> 21

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&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 572

Ala Val Cys Pro Trp Cys Ala Leu Trp Arg Lys Ala Gly Met Asp Met  
 1 5 10 15

Thr Tyr Ser Trp Leu  
 20

&lt;210&gt; 573

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 573

Pro Gly Asp Ser Ala Leu Ser Tyr Thr Cys Arg Ala Asn Asn Pro Ile  
 1 5 10 15

Ser Asn Val Ser Ser Cys Pro Ile  
 20

&lt;210&gt; 574

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 574

Tyr Ala Ser Glu Lys Pro Ser Thr Ala Phe Cys Leu Leu Ala Lys Gly  
 1 5 10 15

Leu Leu Ile Phe Leu Leu Leu Val  
 20

&lt;210&gt; 575

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 575

Gln Lys Arg His Lys Met Pro Arg Met Lys Lys Leu Met Arg Asn Arg  
 1 5 10 15

Met Lys Leu Arg Lys Glu Ala Lys Pro Gly  
 20 25

&lt;210&gt; 576

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 576

Leu Ser Tyr Ser Val Leu Leu Ile Leu Pro Leu Phe His Ser Leu Pro







<220>

<222> (24)

<220>

&lt;222&gt; (25)

 $\langle 220 \rangle$ 

<222> (31)

<400> 580

<210> 581

<212> PRT

<400> 581

<210> 582

<211> 25

&lt;212&gt; PRT

<213> Homo sapiens

<400> 582



Tyr Val Gly Thr Ser Ser Leu Gln Gln Lys Leu Ser Asn Trp Gly His  
 1 5 10 15

Leu Asn Arg Lys Val Leu Lys Arg Leu  
 20 25

<210> 583  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 583  
 Gly Ser Ala Trp Arg Arg Gly Arg Gly Ala Gly Ser Arg Ala Pro Ala  
 1 5 10 15

Pro Tyr Arg Ser Trp Leu Pro Arg Met Ala Val Ala Thr Trp Met Trp  
 20 25 30

Val Tyr Pro Arg Arg Pro Glu Val Lys Val Ser Arg Thr Pro Arg Glu  
 35 40 45

Gly Val Ser Ser Ala Gly Thr Gly Arg Arg Arg Leu Gly Leu Gln Arg  
 50 55 60

Ile Thr Gly Arg Cys Arg Ala Thr Pro Ala Ser Ser Ser Arg Ser Leu  
 65 70 75 80

Lys Arg Ser Arg Ser Cys Trp Pro Leu Lys Arg Pro Cys Arg Ser Cys  
 85 90 95

Arg

<210> 584  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 584  
 Trp Leu Pro Arg Met Ala Val Ala Thr Trp Met Trp Val Tyr Pro Arg  
 1 5 10 15

Arg Pro Glu Val Lys  
 20

<210> 585  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 585  
 Cys Arg Ala Thr Pro Ala Ser Ser Ser Arg Ser Leu Lys Arg Ser Arg  
 1 5 10 15

Ser Cys Trp Pro Leu Lys Arg

13434650



20

<210> 586  
 <211> 347  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (241)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (243)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 586  
 Glu His Asn Thr Asp Phe Asn Gly Ala Ala Leu Ser Arg Asn Leu Gln  
   1                  5                  10                  15  
 Thr Phe Arg Leu Ser Thr Pro Cys Ala Arg Arg Glu Gly Arg Leu Leu  
                   20                  25                  30  
 Arg Ala His Arg Arg Cys Pro Pro Tyr Ser Trp Arg Ser His Ala Ser  
                   35                  40                  45  
 Pro Leu Pro Leu Gln Leu Leu Arg Ser Pro Ser Pro Arg Trp Val Pro  
   50                  55                  60  
 Gly Lys Leu Pro Gly Gly Ala Gly Glu Pro Leu Ser Gly Pro Gly Gln  
   65                  70                  75                  80  
 Ile Pro Pro Trp Leu Arg Ala Trp Gly Thr Ser Leu Asp Gly Asp Ala  
                   85                  90                  95  
 Ala Val Leu Gly Ala Gly Arg Gly Pro Asp Ser Gly Gly Val Asp Arg  
                   100                  105                  110  
 Ala Lys Gly Pro Pro Pro Lys Ala Gln Arg Arg Glu Met Gln Gly Arg  
                   115                  120                  125  
 Ala Gln Gly Val Gly His Cys Phe Gly Gly Gln Ala Arg Ser Leu His  
   130                  135                  140  
 Val Ala Ser Gly Leu Trp Lys Ala Val His Ser Pro Asp Pro Asp Leu  
   145                  150                  155                  160  
 Arg Ser Gly Arg Arg Arg Leu Ser Pro Gly Pro Ala Leu Leu Glu Phe  
                   165                  170                  175  
 Leu Ser His Leu Leu His Ala His Pro Ser Gln Gly Arg Arg Ala Leu  
                   180                  185                  190  
 Gly Pro Gln Gln Ala Arg Glu Ser Ser Gly Leu Arg Pro Pro Asn Gly  
                   195                  200                  205  
 Leu Ser Ile Gly Gly Trp Val Arg Arg Gly Val Gly Ala Leu Ala Gly  
   210                  215                  220

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Thr Arg Ala Ser Pro Arg Gly Pro Gly Arg Arg Ser Pro Leu Leu Thr  
 225 230 235 240  
 Xaa Arg Xaa Leu Glu Pro Pro Gly Glu Val Phe Asp Pro His Ile Leu  
 245 250 255  
 Glu Leu Glu Gln Val Leu Gln Ala Pro Tyr Leu His Leu Gln Asp Leu  
 260 265 270  
 His Gly Leu Leu Arg Gly Gln Gln Leu Leu Leu Phe Ser Asp Leu  
 275 280 285  
 Glu Asp Glu Ala Gly Val Ala Leu Gln Arg Pro Val Ile Arg Trp Arg  
 290 295 300  
 Pro Arg Arg Arg Arg Pro Val Pro Ala Glu Leu Thr Pro Ser Leu Gly  
 305 310 315 320  
 Val Arg Asp Thr Phe Thr Ser Gly Leu Leu Gly Tyr Thr His Ile His  
 325 330 335  
 Val Ala Thr Ala Ile Leu Gly Ser Gln Leu Leu  
 340 345

<210> 587  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 587  
 Thr Asp Phe Asn Gly Ala Ala Leu Ser Arg Asn Leu Gln Thr Phe Arg  
 1 5 10 15  
 Leu Ser Thr Pro Cys Ala Arg Arg Glu Gly  
 20 25

<210> 588  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 588  
 Arg Cys Pro Pro Tyr Ser Trp Arg Ser His Ala Ser Pro Leu Pro Leu  
 1 5 10 15  
 Gln Leu Leu Arg Ser Pro Ser Pro Arg  
 20 25

<210> 589  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 589



231

Gly Ala Gly Glu Pro Leu Ser Gly Pro Gly Gln Ile Pro Pro Trp Leu  
1 5 10 15

Arg Ala Trp Gly Thr Ser Leu Asp  
20

<210> 590

<211> 30

<212> PRT

<213> Homo sapiens

<400> 590

Leu Gly Ala Gly Arg Gly Pro Asp Ser Gly Gly Val Asp Arg Ala Lys  
1 5 10 15

Gly Pro Pro Pro Lys Ala Gln Arg Arg Glu Met Gln Gly Arg  
20 25 30

<210> 591

<211> 23

<212> PRT

<213> Homo sapiens

<400> 591

Gln Ala Arg Ser Leu His Val Ala Ser Gly Leu Trp Lys Ala Val His  
1 5 10 15

Ser Pro Asp Pro Asp Leu Arg  
20

<210> 592

<211> 20

<212> PRT

<213> Homo sapiens

<400> 592

His Pro Ser Gln Gly Arg Arg Ala Leu Gly Pro Gln Gln Ala Arg Glu  
1 5 10 15

Ser Ser Gly Leu  
20

<210> 593

<211> 27

<212> PRT

<213> Homo sapiens

<400> 593

Ile Gly Gly Trp Val Arg Arg Gly Val Gly Ala Leu Ala Gly Thr Arg  
1 5 10 15

Ala Ser Pro Arg Gly Pro Gly Arg Arg Ser Pro  
20 25



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<400> 594
Glu Pro Pro Gly Glu Val Phe Asp Pro His Ile Leu Glu Leu Glu Gln
 1             5             10             15
Val Leu Gln Ala Pro Tyr Leu His Leu
          20             25

```

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<400> 595
Val Pro Ala Glu Leu Thr Pro Ser Leu Gly Val Arg Asp Thr Phe Thr
  1                      5              10                      15

Ser Gly Leu Leu Gly Tyr Thr His Ile His Val Ala
      20              25

```

<400> 596  
His Thr Leu Phe Ile Ser Phe Leu Trp Ala Glu Gly  
1 5 10

```

<400> 597
Met Leu Pro Val Phe Val Leu Phe Phe Cys Phe Thr Tyr Ser Ala Arg
  1                      5                      10                      15

Lys Gln Ser Val Phe Lys Lys Gly Asn Val Phe Glu
                20                      25

```

```
<210> 598
<211> 63
<212> PRT
<213> Homo sapiens
```



Ser Pro Cys Ser Ala Ala Glu Cys His Asn Leu Ser Leu Leu Ser Ser  
1 5 10 15

Cys Ser Leu Val Ser Ser Asn Ile Leu Phe Ser Phe Pro Phe Phe Gly  
20 25 30

Gln Lys Ala Arg Cys Cys Leu Phe Leu Phe Tyr Phe Ser Ala Ser His  
35 40 45

Ile Ala His Glu Ser Arg Val Tyr Ser Lys Lys Glu Met Cys Leu  
50 55 60

<211> 52

<212> PRT

<213> Homo sapiens

Ala Phe Phe Leu Leu Gln Ala Leu Glu Ile Gln Ser Gln Leu Ala Thr  
1 5 10 15

Pro Ala Ser Ser Thr Ala Arg Asn Pro Ala Pro Asp Leu His His Pro  
20 25 30

His Gln Pro Thr Ile Glu Arg Phe Cys Arg His Ser Ser Ser Trp Glu  
35 40 45

Arg Ile Glu Tyr  
50

<211> 27

<212> PRT

<213> Homo sapiens

Met Arg Thr Leu Phe Gly Ala Val Arg Ala Pro Phe Ser Ser Leu Thr  
1 5 10 15

Leu Leu Leu Ile Thr Pro Ser Pro Ser Pro Leu  
20 25

<211> 10

&lt;212&gt; PRT

<213> Homo sapiens

Met Ala Tyr Ala Phe His Arg Thr Ser Thr  
1 5 10

<210> 602



```

<400> 605
Ile Arg His Glu Pro Pro Pro Pro Arg Phe Lys Arg Phe Ser Cys Leu
  1                    5                10                15

Ser Leu Leu Ser Ser Trp Asp Tyr Arg Arg Ala Pro Pro His Val Ala
      20                25                30

Ile Phe Cys Thr Leu Ser Arg Asp Gly Val Leu Pro His Trp Pro Gly
      35                40                45

Trp Ser Gln Thr Pro Asp Leu Lys
  50                55

```



<210> 606  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 606  
 Ser Thr His Leu Gly Leu Pro Arg Cys Trp Asp Tyr Arg His Glu Pro  
           1                  5                  10                  15  
 Leu Cys Leu Ala Pro Phe Thr Thr Ile Ser Ile Ile Ile Met Gln Gly  
                   20                  25                  30  
 Leu Ser Asn Leu Ser Met Pro Gln Asn Pro Pro Glu Gly Cys Ala His  
                   35                  40                  45  
 Arg Leu Leu Asp Leu Ser Pro Ala Ser Asp Ser Val Pro Pro Glu Trp  
           50                  55                  60  
 Gly Ser Lys Ile Ala Phe Glu Val  
       65                  70

<210> 607  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 607  
 Leu Arg Val Gly Gly Thr Ser Glu Asn Cys Cys Arg Gly Glu Cys Cys  
       1                  5                  10                  15  
 Gly Ser Val Cys Ile Pro Pro Gly Arg Leu  
           20                  25

<210> 608  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 608  
 Ser Asn Ser His Thr His Thr His Val Lys Ser Phe Leu Arg  
       1                  5                  10

<210> 609  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 609  
 Gln Pro Tyr Gln Val Leu Pro Ser Arg Gln Val Phe Ala Leu Ile  
       1                  5                  10                  15

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```
<400> 610
Val Phe Ser Cys Ile Tyr Gly Glu Gly Tyr Ser Asn Ala His Glu Ser
  1                               5               10               15
Lys Gln Met Tyr Cys Val Phe Asn
                20
```

```

<210> 611
<211> 18
<212> PRT
<213> Homo sapiens

<400> 611
Arg Asn Glu Asp Ala Cys Arg Tyr Gly Ser Ala Ile Gly Val Leu Ala
 1             5             10             15
Phe Leu

```

```
<210> 612
<211> 17
<212> PRT
<213> Homo sapiens

<400> 612
Leu Val Val Asp Ala Tyr Phe Pro Gln Ile Ser Asn Ala Thr Asp Arg
 1         .           5              10              15
Lys
```

```

<210> 613
<211> 25
<212> PRT
<213> Homo sapiens

<400> 613
Ser Ala Leu Trp Thr Phe Leu Trp Phe Val Gly Phe Cys Phe Leu Thr
  1                               10                      15
Asn Gln Trp Ala Val Thr Asn Pro Lys
          20                      25

```

```
<210> 614
<211> 72
<212> PRT
<213> Homo sapiens
```



Thr Ala Thr Leu Asn Ser Phe Phe Gly Gly Trp Gly Leu Ala Leu Leu  
1 5 10 15

Leu Leu Gly Ser Ser Asn Pro Pro Ala Ser Ala Ser Gln Val Val Gly  
35 40 45

Thr Thr Gly Ala Arg His His Ala Gln Leu Ile Phe Cys Phe Phe Val  
50 55 60

Gln Thr Arg Ser His Ser Val Ala  
65 70

<211> 47

<212> PRT

<213> Homo sapiens

Met Asp His Cys Ser Leu Asp Leu Leu Gly Ser Ser Asn Pro Pro Ala  
1 5 10 15

Ser Ala Ser Gln Val Val Gly Thr Thr Gly Ala Arg His His Ala Gln  
20 25 30

Leu Ile Phe Cys Phe Phe Val Gln Thr Arg Ser His Ser Val Ala  
35 40 45

<211> 14

&lt;212&gt; PRT

<213> Homo sapiens

Gly Val Leu Lys Gln Ser Ser His Leu Val Leu Ser Lys Gly  
1 5 10

<211> 21

<212> PRT

<213> Homo sapiens

Asp Tyr Ser Cys Glu Ser Leu Cys Pro Ala Leu Leu Ser Ile Ala Pro  
1 5 10 15

Asp Ile Val Leu Asn  
20



```

<400> 618
Thr Thr Ile His Lys Thr Gln Leu Gly Ser Tyr Lys Ile Leu Trp Glu
  1                      5                      10                      15
Pro Lys Glu Gly Tyr His Asn Ser Thr Trp Ile
          20                      25

```

<400> 619  
Ile Arg Glu Ile Phe Leu Arg Arg Pro  
1 5

```
<400> 620  
Leu Lys Phe Gln Lys Pro Gly Lys Ile Gln Met Arg Gly Gly Gly Arg  
   1                               10                          15  
  
Val Phe Trp Tyr Lys Asn Cys Lys  
      20
```

```
<400> 621
Arg His Glu Pro Asp Pro Met
      1               5
```

```
<400> 622
Ala Val Cys Thr Gly Gly Tyr Cys Glu Ser Cys Arg Cys Glu His Cys
  1                               10                      15
Val Cys Val Cys Val Asp Leu Cys Val Leu Phe Ser Gly Lys Glu Leu
                20                      25                      30
```



```
<210> 623
<211> 72
<212> PRT
<213> Homo sapiens
```

```
<210> 624
<211> 99
<212> PRT
<213> Homo sapiens
```

```
<210> 625
<211> 74
<212> PRT
```



<213> Homo sapiens

<400> 625

Met Gly His Leu Phe Val Val Cys Leu Leu Ser Ser Trp Trp Thr Phe  
1 5 10 15

Arg Pro Phe Ala Leu Ala Val Thr Val Asn His Val Ala Val Asn Ile  
20 25 30

Val Cys Val Ser Ala Trp Thr Cys Val Ser Cys Ser Leu Gly Arg Ser  
35 40 45

Cys Gly Leu Glu Gly Ser Phe Leu Phe Pro Leu Glu Thr Leu Trp Phe  
50 55 60

Pro His Met Val Val Leu Cys Leu Thr Phe  
65 70

<210> 626

<211> 51

<212> PRT

<213> Homo sapiens

<400> 626

His Asp Val Leu Gly Ala Arg Asn Ala Ala Cys Val Cys Cys Ser Phe  
1 5 10 15

Leu Leu Gln Gln Asn Arg Ile Leu Leu Phe Gly Trp Ala Thr Cys Leu  
20 25 30

Leu Ser Val Tyr Ser Pro Ala Gly Gly His Leu Gly Arg Leu His Trp  
35 40 45

Arg Leu Leu  
50

<210> 627

<211> 130

<212> PRT

<213> Homo sapiens

<400> 627

Met Leu Asp Phe Lys Thr Ser Gln Val Ser Lys Ala Leu Lys Arg Val  
1 5 10 15

Gly Phe Gly Val Arg Leu Ala Gln Cys Ser Ser Leu Asp Leu Ile Ser  
20 25 30

Ala Lys Leu His Leu Lys Thr Lys Lys Lys Glu Thr Tyr Ile Thr Ser  
35 40 45

Thr Val Met Thr Ala Ala Ser Leu Phe Leu Ser Tyr Val Thr Ser Glu  
50 55 60

Phe Thr Arg Ser Ile Met Ala Thr Phe Tyr Cys Phe Val Leu Lys Leu  
65 70 75 80



241

His Ile Gly Glu Met Gly Thr Leu Gln Thr Ala Gly Gly Ser Lys Met  
85 90 95

Thr Trp Pro Leu Gln Lys Ala Ile Trp Gln Phe Leu Lys Arg Leu Ser  
100 105 110

Ile Lys Leu Pro Tyr Val Glu Thr Arg Glu Ser Pro Gly Glu Thr Lys  
115 120 125

Asn Tyr  
130

<210> 628

<211> 28

<212> PRT

<213> Homo sapiens

<400> 628

Leu Thr Arg Asn Ser Phe Pro Glu Asn Arg Thr His Lys Ser Thr Gln  
1 5 10 15

Thr His Thr Gln Cys Ser Gln Arg His Asp Ser Gln  
20 25

<210> 629

<211> 60

<212> PRT

<213> Homo sapiens

<400> 629

Leu Phe Tyr Leu Leu Thr Cys Ser Cys Ala Pro Gly His Leu Ala Phe  
1 5 10 15

Val Cys Ser Gln Cys Leu Pro Phe Asp Met Gly Lys Glu Leu Trp Pro  
20 25 30

Lys Ser Pro Ser Ser Cys Thr Ser Thr Ser Val Ala Gln Gly Trp Gly  
35 40 45

Gly Arg Gly Arg Pro Ser Pro Tyr Ile Cys Val Val  
50 55 60

<210> 630

<211> 61

<212> PRT

<213> Homo sapiens

<400> 630

Ile Gln Gly Ser Arg Leu Pro Pro Leu Pro Ala Pro Leu His Pro Leu  
1 5 10 15

Pro Leu Ile Tyr Leu Leu Leu Gly Ser Pro Ala Gln Ser Trp Leu Leu  
20 25 30

Val Pro Ser Trp Gly His Pro Ser Thr Leu Thr Leu Thr Met Ala Ala

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le Ser Val Ser Gly Ser  
5 10

eu Thr Glu Gly Asn Ala  
25

er Lys Arg Leu Ile Leu  
40

45

```
<210> 631
<211> 15
<212> PRT
<213> Homo sapiens
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<210> 632
<211> 46
<212> PRT
<213> Homo sapiens
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Thr Trp Asn Thr Leu Thr Glu Gly Asn Ala Glu Ala Ala Cys Thr Val  
20 25 30

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<210> 633
<211> 50
<212> PRT
<213> Homo sapiens
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Phe Leu Ser Val Val Ser Tyr Ile Phe Ile Met Pro His His Ile Phe  
20 25 30

Lys    Leu  
50

<400> 634



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243

Arg Pro Thr Arg Pro Ile Thr Phe Ser Ser Asn Ile Ser Glu Trp Val  
1 5 10 15  
Pro Ser Thr Gly Phe Gln Asp Leu Glu His Phe Asn Arg Arg Lys Cys  
20 25 30  
Arg Ser Ser Leu His Ser Cys Phe Thr Asp Phe Gln Glu Ala Asp Ser  
35 40 45  
Gly Phe Lys Met Glu Pro Trp Ser Trp Phe Phe Phe Phe Phe Phe  
50 55 60  
Phe Pro Gln Arg Thr Cys Gly Cys Ala Leu Cys Val Leu Phe Leu Phe  
65 70 75 80  
Ser Ile Trp Gly Pro His Gly Lys Glu Leu Leu Asn Ser Phe Leu Tyr  
85 90 95  
Glu Leu Pro Leu Cys Ser Tyr Lys Gly Pro Phe Leu Ser  
100 105

<210> 635  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 635  
Thr Lys Thr Ser Thr Pro Leu Arg  
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<210> 636  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 636  
Ala Ser Phe Gly Ser Cys Ser Leu Ser Leu Pro Cys Ser Ala Arg Glu  
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Arg Thr Pro Glu Gly Gly Gly Trp Pro Gly Gly Arg Leu Ser Glu Pro  
20 25 30  
Leu Pro Ala  
35

<210> 637  
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<212> PRT  
<213> Homo sapiens

<400> 637  
Ala Pro Asn Val Val Leu Val  
1 5



<210> 638  
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 <212> PRT  
 <213> Homo sapiens

<400> 638  
 Asp Gly Arg Leu Thr Phe  
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<210> 639  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 639  
 Pro Gly Ser Gln Val Val Lys Leu Pro Phe Ile Asn Phe Met  
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<210> 640  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 640  
 Phe Leu Asn Ala Tyr Thr Asn Ser Pro  
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<210> 641  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 641  
 Ile Cys Cys Pro Ser Arg Ala Ala Met Trp Ser Gly Leu Phe Thr His  
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Leu Thr Glu Ser Trp Asn Asn Phe Lys Gly Leu Asp Pro Asn Tyr Thr  
             20                    25                    30

Thr Trp Met Asp  
             35

<210> 642  
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 <212> PRT  
 <213> Homo sapiens

<400> 642  
 Thr Gln Lys Phe Gly Lys  
     1                    5

009327-101001



```
<400> 643
Asp Tyr Thr Ser Gly His His Ser Ile
  1                      5
```

```
<400> 644
Ser Asn Arg Val Glu Ala Trp Thr Arg Asp Val Ala Phe Leu Leu Arg
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```

```
<210> 645
<211> 8
<212> PRT
<213> Homo sapiens
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```
<210> 646
<211> 34
<212> PRT
<213> Homo sapiens
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Glu Asn Phe Gly Ser Ser Thr Phe His Thr Ser Leu Tyr Trp Leu Glu  
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```
<210> 647
<211> 8
<212> PRT
<213> Homo sapiens
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<400> 647  
Asp Ala Ile Lys Ile Pro Lys Trp



5

<400> 648  
Tyr Thr Lys Asn Cys Thr Gly  
1 5

```

<400> 649
Asn Ile Arg Ala Phe Tyr Tyr Ala Met Cys Ala Glu Thr Asp Ala Met
 1             5             10             15

Leu Gly Glu Ile Ile Leu Ala Leu His
          20             25

```

```
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<211> 11
<212> PRT
<213> Homo sapiens
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<400> 650  
Leu Asp Leu Leu Gln Lys Thr Ile Val Ile Tyr  
1 5 10

```
<210> 651
<211> 15
<212> PRT
<213> Homo sapiens
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```

<400> 651
Met Glu His Arg Gln Phe Tyr Lys Met Ser Met Tyr Glu Ala Ser
  1             5             10             15

```

```
<210> 652
<211> 13
<212> PRT
<213> Homo sapiens
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<400> 652  
His Val Pro Leu Leu Met Met Gly Pro Gly Ile Lys Ala  
1 5 10



```
<400> 653
Val Val Ser Leu Val Asp Ile Tyr Pro Thr Met Leu Asp Ile Ala Gly
  1                      5                      10                      15
Ile
```

<400> 654  
Asp Pro Asp Glu Leu Thr Asn  
1 5

```
<400> 655
Trp Lys Tyr Ile Ala Tyr
  1                               5
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<400> 656
Asn Phe Pro Glu Ile Thr Tyr Ser Leu Asp Gln Lys Leu His Ser Ile
  1             5             10             15
Ile Asn Tyr Pro Lys Val Ser Ala Ser Val His Gln Tyr Asn Lys Glu
      20             25             30
Gln Phe Ile Lys Trp Lys Gln Ser Ile Gly Gln Asn Tyr Ser Asn Val
      35             40             45
Ile Ala Asn Phe Arg Trp His Gln Asp Trp Gln Lys Glu Pro Arg Lys
      50             55             60
Tyr Glu Asn Ala Ile Asp Gln Trp Leu Lys Thr His Met Asn Pro Arg
      65             70             75             80
Ala Val

```



<400> 657  
Phe Pro Glu Ile Thr Tyr Ser Leu Asp Gln Lys Leu  
1 5 10

```
<400> 658
Asn Tyr Pro Lys Val Ser Ala Ser Val His Gln Tyr Asn Lys Glu Gln
  1                   5             10              15
```

```
<210> 659
<211> 9
<212> PRT
<213> Homo sapiens
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```
<210> 660
<211> 7
<212> PRT
<213> Homo sapiens
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```
<210> 661
<211> 8
<212> PRT
<213> Homo sapiens
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<210> 662







Variable	Mean	SD	Min	Max
Age	38.5	10.2	22	65
Gender	0.5	0.5	0	1
Marital status	0.7	0.5	0	1
Education	12.5	1.5	9	16
Income	15.2	5.8	5	35
Occupation	1.2	0.8	0	2
Health status	1.8	0.5	1	3
Stress level	2.5	0.8	1	4
Life satisfaction	3.2	0.7	2	4
Resilience	2.8	0.6	2	4
Optimism	3.5	0.5	2	4
Self-efficacy	3.8	0.4	2	4
Emotional stability	3.1	0.6	2	4
Psychological well-being	3.4	0.5	2	4
Life satisfaction (repeated)	3.2	0.7	2	4
Resilience (repeated)	2.8	0.6	2	4
Optimism (repeated)	3.5	0.5	2	4
Self-efficacy (repeated)	3.8	0.4	2	4
Emotional stability (repeated)	3.1	0.6	2	4
Psychological well-being (repeated)	3.4	0.5	2	4

Gly

<400> 665  
Cys Pro Glu Ser Trp Ile Gly Phe Gln Arg Lys Cys  
1 5 10

<400> 666  
Asn Phe Leu Leu Arg Tyr Lys Gly Pro Ser Asp His Trp Ile Gly Leu  
1 5 10 15

<400> 667  
Ala Ser His Leu Arg Leu Leu Ser Ser Trp Asp Tyr Arg Phe Pro Ile  
1 5 10 15

Ala Arg His Tyr Thr Glu Arg Lys Trp Ile Cys Ser Lys Ser Asp Ile  
35 40 45

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<210> 668
<211> 76
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (9)



<220>

<222> (22)

 $\langle 220 \rangle$ 

<222> (29)

<400> 668

Ser Ile Lys Ala Thr Xaa Ile Trp Arg Leu Phe Phe Xaa Ile Leu Thr  
20 25 30

Ile Ile Leu Cys Gly Met Val Ala Ala Leu Ser Ala Ile Arg Ala Asn  
35 40 45

Cys His Gln Glu Pro Ser Val Cys Ser Ser Ser Cys Met Pro Arg Lys  
50 55 60

Leu Asp Trp Phe Ser Lys Lys Val Phe Leu Phe Phe  
65 70 75

<211> 39

<212> PRT

<213> Homo sapiens

<400> 669

Glu Gln Leu Glu Leu Glu Leu Lys Lys Lys Asp Phe Ile Lys Ile  
1 5 10 15

Leu Glu Ser Val Gln Gly Asn Trp Arg Gln Asn Glu Asp Ser Gly Lys  
20 25 30

Gly Pro Gln Arg Ser Cys Leu  
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<210> 670

<211> 19

<212> PRT

<213> Homo sapiens

<400> 670

Phe Trp Pro Glu Ser Lys Ile Gln Pro Tyr Lys Asp Met Phe Ser Cys  
1 5 10 15

Glu Ile Ile



```

<400> 671
Glu Gln Leu Glu Glu Leu Glu Leu Lys Lys Lys Asp Phe Ile Lys Ile
  1                               5                10                15

Leu Glu Ser Val Gln Gly Asn Trp Arg Gln Asn Glu Asp Ser Gly Lys
      20                25                30

Gly Pro Gln Arg Ser Cys Leu His Ser Lys Glu His Ser Ile Lys Ala
      35                40                45

Thr Leu Ile Trp Arg Leu Phe Phe Leu Ile
  50                55

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<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids
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```
<400> 672
Glu Asn Phe Leu Leu Arg Tyr Lys Gly Pro Ser Asp His Trp Ile Gly
 1             5             10             15
Leu Xaa Xaa Glu Gln Gly Gln Pro Trp Lys Trp Ile Asn Gly Thr Glu
      20             25             30
Trp Thr Arg Gln
      35
```

```
<220>
<221> misc_feature
<222> (709)..(709)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (738)..(738)
<223> n equals a,t,g, or c
```



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<400> 673
tacaacgtcg tgactgggaa aaccctggcg ttacccaact taatcgccct gcagcacatc      60
cccctttcgc cagctggcgt aatagcgaag aggccgcac cgatcgccct tcccaacagt      120
tgcgcagcct gaatggcgaa tggcgccctga tgcggtatct tctccttacg catctgtgcg      180
gtatttcaca ccgcataatg tgcaactctca gtacaatctg ctctgatgcc gcatagttaa      240
gccagccccg acaccgccca acaccgcctg acgcgccctg acgggcttga ctgctcccgg      300
catccgctta cagacaagct gtgaccgtct ccgggagctg catgtgtcag aggttttcac      360
cgtcatcacc gaaacgcgcg agacgaaagg gcctcgtgat acgcctatct ttataggtta      420
atgtcatgat aataatgggt tcttagacgt cagggtggcac ttttcgggga aatgtgcgcg      480
gaacccttat ttgtttatct ttctaaatac attcaaatac gtatccgctc atgagacaat      540
aaccctgata aatgcttcaa taatattgcc aaaggaagag tatgagtatt caacatttcc      600
gtgtcgccct tattcccttt attgcggcat tgagcctgtc tgtttttgct caccagaaa      660
cgctggtgaa agtaaaagat gctgaagatc agttgggtgc acgagtggng tacatcgaac      720
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<210> 674

<211> 878

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (741)..(741)

<223> n equals a,t,g, or c

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<400> 674
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gaatggcgcc tgatgcggta ttttctcctt acgcatctgt gcggtatctt acaccgcata      180
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ccaacaccgc ctgacgcgcc ctgacgggct tgtctgctcc cgcatccgc ttacagacaa      300
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gcgagacgaa agggcctcgt gatacgccta tttttatagg ttaatgtcat gataataatg      420
gtttcttaga cgtcagggtg cacttttcgg ggaaatgtgc gcggaacccc tatttgttta      480
tttttctaaa tacattcaaa tatgtatccg ctcatgagac aataaccctg ataaatgctt      540
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gatgctgaag atcagttggg tgcacgagtg ggttacatcg aactggatct caacagcggg      720
aaaaaccctg agagttttcg nccccgagaa cgtttttcaa tgatgagcac ttttaaagtt      780
ctgctatgtg gcgcggtatt aatccctatt tacgcccggg cagaagcact cggtcgccgg      840
atacactatt ctagaatgac ttggttgagt actaacca      878

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<210> 675

<211> 150

<212> DNA

<213> Homo sapiens

<400> 675

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cgctcgtgact gggaaaaccc tggcgttacc caacttaatc gccttgagc acatccccct      60
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agcctgaatg gcgaatggcg cctgatgcgg      150

```

<210> 676

<211> 845

<212> DNA

<213> Homo sapiens

<400> 676

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cccgtcgttt tacaacgtcg agactgggaa aaccctggcg ttacccaact taatcgccct      60
gcagcacatc cccctttcgc cagctggcgt aatagcgaag aggccgcac cgatcgccct      120

```







acttagcaca	gtgtttttgag	ggttttgtcca	tgtgttagca	tggatatttc	attccctttt	2520
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<400> 686



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<210> 690



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 <213> Homo sapiens

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 tttacaataa gagaactgaa ggctcaggaa gtgcgaaagt tgtggagcca ggaatcaaag 240  
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 tttacaataa gagaactgaa ggctcaggaa gtgcgaaagt tgtggagcca ggaatcaaag 240  
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<212> DNA
<213> Homo sapiens
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18







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<220>  
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<211> 533
<212> DNA
<213> Homo sapiens
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<211> 538
<212> DNA
<213> Homo sapiens
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<212> DNA
<213> Homo sapiens
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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 712

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&lt;211&gt; 741

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 713

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741

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&lt;211&gt; 741

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 714

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&lt;211&gt; 271

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 715

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&lt;211&gt; 254

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 716

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&lt;211&gt; 271

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 717

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&lt;211&gt; 254

&lt;212&gt; DNA



&lt;213&gt; Homo sapiens

&lt;400&gt; 718

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&lt;211&gt; 254

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 719

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&lt;211&gt; 271

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 720

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&lt;210&gt; 721

&lt;211&gt; 6838

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 721

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 733

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 734

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&lt;211&gt; 606

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 735

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&lt;213&gt; Homo sapiens

&lt;400&gt; 736

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<212> DNA  
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 <211> 1551  
 <212> DNA  
 <213> Homo sapiens

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 <211> 488  
 <212> DNA  
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<212> DNA

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<210> 767

<211> 1608

<212> DNA

<213> Homo sapiens



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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<210> 805

<211> 190

<212> DNA

<213> Homo sapiens

<400> 805

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<210> 806

<211> 158

<212> DNA

<213> Homo sapiens

<400> 806

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<210> 807

<211> 193

<212> DNA

<213> Homo sapiens

<400> 807

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<210> 808

<211> 136

<212> DNA

<213> Homo sapiens

<400> 808

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<210> 809

<211> 202

<212> DNA

<213> Homo sapiens

<400> 809

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<210> 810

<211> 150

<212> DNA

<213> Homo sapiens

<400> 810



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<210> 811

<211> 354

<212> DNA

<213> Homo sapiens

<400> 811

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<210> 812

<211> 142

<212> DNA

<213> Homo sapiens

<400> 812

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<210> 813

<211> 123

<212> DNA

<213> Homo sapiens

<400> 813

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<210> 814

<211> 368

<212> DNA

<213> Homo sapiens

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<211> 2925

<212> DNA

<213> Homo sapiens

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<211> 4704

<212> DNA

<213> Homo sapiens

<400> 816

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&lt;211&gt; 774

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 817

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&lt;211&gt; 2044

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 818

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&lt;211&gt; 7348

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 819

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<211> 552

<212> DNA

<213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

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<400> 871

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<212> DNA

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&lt;211&gt; 2787

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 873

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<212> DNA

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<212> DNA

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<211> 306

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<213> Homo sapiens

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<210> 918

<211> 5235

<212> DNA

<213> Homo sapiens

<400> 918

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<212> DNA
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<211> 2633
<212> DNA
<213> Homo sapiens
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<211> 1840
<212> DNA
<213> Homo sapiens
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&lt;210&gt; 922

&lt;211&gt; 7963

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 922

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&lt;210&gt; 923

&lt;211&gt; 553

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 923

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<212> DNA
<213> Homo sapiens
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<213> Homo sapiens
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<210> 926
<211> 2631
<212> DNA
<213> Homo sapiens
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<211> 280

<212> DNA

<213> Homo sapiens

<400> 927

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<210> 928

<211> 302

<212> DNA

<213> Homo sapiens

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